

Receiving Report

Date: 16-10-12

Batch No: 135865

Supplier: magnoe

Dart P/O: 33856

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr
 New Supplier Yes No

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No
 Shipment Complete: Yes No N/A
 QC18 Inspection
 Work Order

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date

Received/Costing

Initial

Location

2



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632-1053

PURCHASE ORDER

Purchase Order ID PO33856

Purchase Order Date 10/5/2016

PO Print Date 10/5/2016

Page Number 1 of 3

Order From :
MONROE AEROSPACE
399 EAST DRIVE
MELBOURNE, FLORIDA 32904
USA

VU-EC001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

OCT 05 2016

E-MAILED

Contact Name
Vendor Phone 1-321-727-0047
Ship To Contact
Ship To Phone
Ship Via: FedEx Economy collect
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

M135865

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ CD Taxable	Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN3-3A	Bolt	10/7/2016 FN Yes	10/7/2016	50.00 Each	\$0.07	\$3.50
2	CCR264SS-3-06	Rivet	10/7/2016 FN Yes	10/7/2016	100.00 Each	\$0.16	\$16.00
3	CR3213-5-3	Cherry Rivet	10/7/2016 FN Yes	10/7/2016	100.00 Each	\$0.34	\$34.00

Note:





Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO33856

Purchase Order Date 10/5/2016

PO Print Date 10/5/2016

Page Number 2 of 3

Order From :

MONROE AEROSPACE
399 EAST DRIVE
MELBOURNE, FLORIDA 32904
USA

VU-EC001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 1-321-727-0047

Buyer Chantal Lavoie

Customer POID

10127-2607

Customer Tax #

Net 30

Terms

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via: FedEx Economy collect

Ship Acct:

				Line Total:	
4	MS21919-WDG9	Clamp	10/7/2016 Yes 10/7/2016	100.00 Each	\$0.48 ✓ \$48.00
5	MS27039-08-19	Screw	10/7/2016 Yes 10/7/2016	100.00 Each	\$0.14 ✓ \$14.00
6	MS27039-1-16	Screw	10/7/2016 FN Yes 10/7/2016	100.00 Each	\$0.09 ✓ \$9.00

Note:





Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO33856**

Purchase Order Date **10/5/2016**

PO Print Date **10/5/2016**

Page Number **3 of 3**

Order From :

MONROE AEROSPACE
399 EAST DRIVE
MELBOURNE, FLORIDA 32904
USA

VU-EC001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 1-321-727-0047

Buyer Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via: FedEx Economy collect

Ship Acct:

7 71401-45	PROCUREMENT QUALITY CLAUSES	10/7/2016	1.00	\$0.00	\$0.00
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Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A043 RETENTION OF QUALITY DOCUMENT

No
10/7/2016

Line Total: \$0.00

PO Total: \$124.50

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

1

Change Date: 10/5/2016



ECAS, LLC
CUSTOMS INVOICE

No: H977913

Package Details:

Number of Pieces: Total Weight: 5.3	DART AEROSPACE LTD. ATTN: RECEIVING 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 Canada
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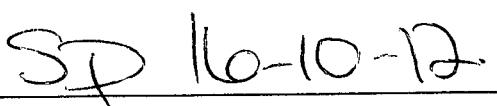
Carrier	A/W Bill	Flight Number/Date	House A/W Bill
113- FX INT ECONOMY 151793240	665770302000		

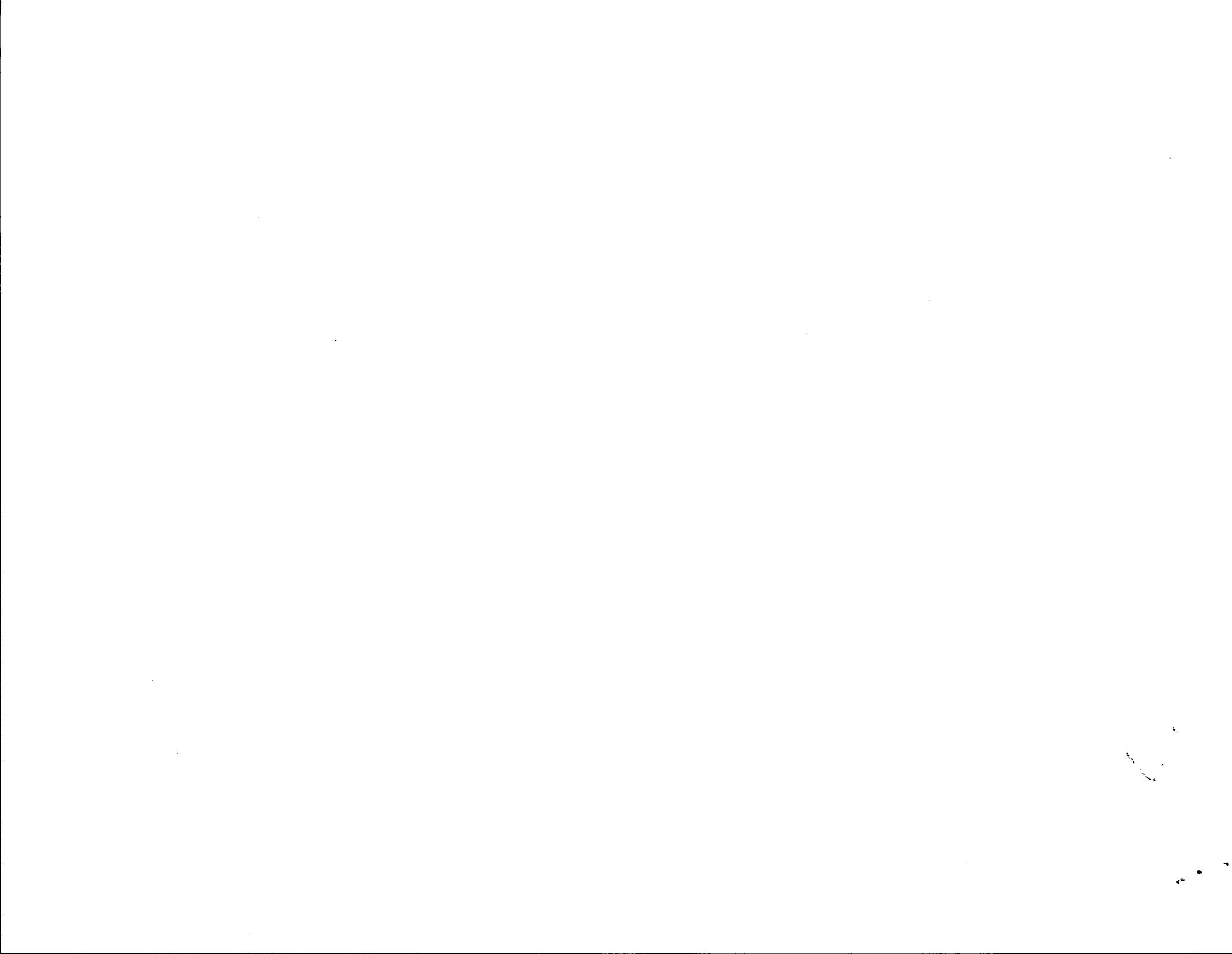
Qty	Part No.	Description	Serial Number	Origin	Value	Ext Value	Cust. PO#
50	AN3-3A ✓	BOLT UNDRILLED		USC	\$3.5000	\$3.5000	PO33856
100	CCR264SS3-06 ✓	CHERRY RIVET		USC	\$22.0000	\$22.0000	PO33856
100	CR3213-5-03 ✓	CHERRY RIVET		USC	\$40.0000	\$40.0000	PO33856
100	MS21919WDG9 ✓	CLAMP		USC	\$48.0000	\$48.0000	PO33856
100	MS27039-0819 ✓	STRUCTURAL SCREW		USC	\$14.0000	\$14.0000	PO33856
100	MS27039-1-16 ✓	STRUCTURAL SCREW		USC	\$12.0000	\$12.0000	PO33856

Total: \$139.5000

Home Total: \$139.5000

The goods are supplied to you under the terms of your end-use.
I do hereby declare to the best of my knowledge the invoice to be true and correct.

Signed: For and on behalf of ECAS, LLC	 16-10-12	Inspectors Stamp
---	---	------------------




PACKING SLIP

INVOICE #: 576900

DATE PRINTED: 10/10/2016

TIME: 3:11:51 PM

OF ITEMS: 6

PAGE: 1

TO: DART AEROSPACE LTD.
ACCTS. PAYABLE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

ATTN: CHANTAL LAVOIE
Ph: 613.632.3336 Fax: 613.632.5246

SHIP TO: DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

INVOICE DATE: 10/10/2016 TERMS: NET 30 WEIGHT: 5.3 SHIP VIA: 113- FX INT ECONOMY
 ORDER DATE: 10/5/2016 CUST PO: PO33856 # OF BOXES:
 SHIP DATE: 10/10/2016 FOB: MELBOURNE, FL SHIPMENT #: 0
 SALES ORDER #: 514071 AWB: 665770302000 YOUR MONROE ACCOUNT REP: Luis Sepulveda
 CUSTOMER #: 16754

ITEM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM
1	AN3-3A BOLT UNDRILLED ✓	✓ 50.00	0.00	NE		
	MFR: AFC	LOT: 25270				
2	CCR264SS3-06 CHERRY RIVET ✓	✓ 100.00	0.00	NE		
	MFR: CHERRY	LOT: 87743839				
3	CR3213-5-03 CHERRY RIVET ✓	100.00	0.00	NE		
	MFR: CHERRY	LOT: 87952978				
4	MS21919WDG9 CLAMP ✓	100.00	0.00	NE		
	MFR: UMPCO	LOT: UMP109874				
5	MS27039-0819 STRUCTURAL SCREW ✓	100.00	0.00	NE		
	MFR: CRESCENT	LOT: 80838				
	Control #: 128337-1					

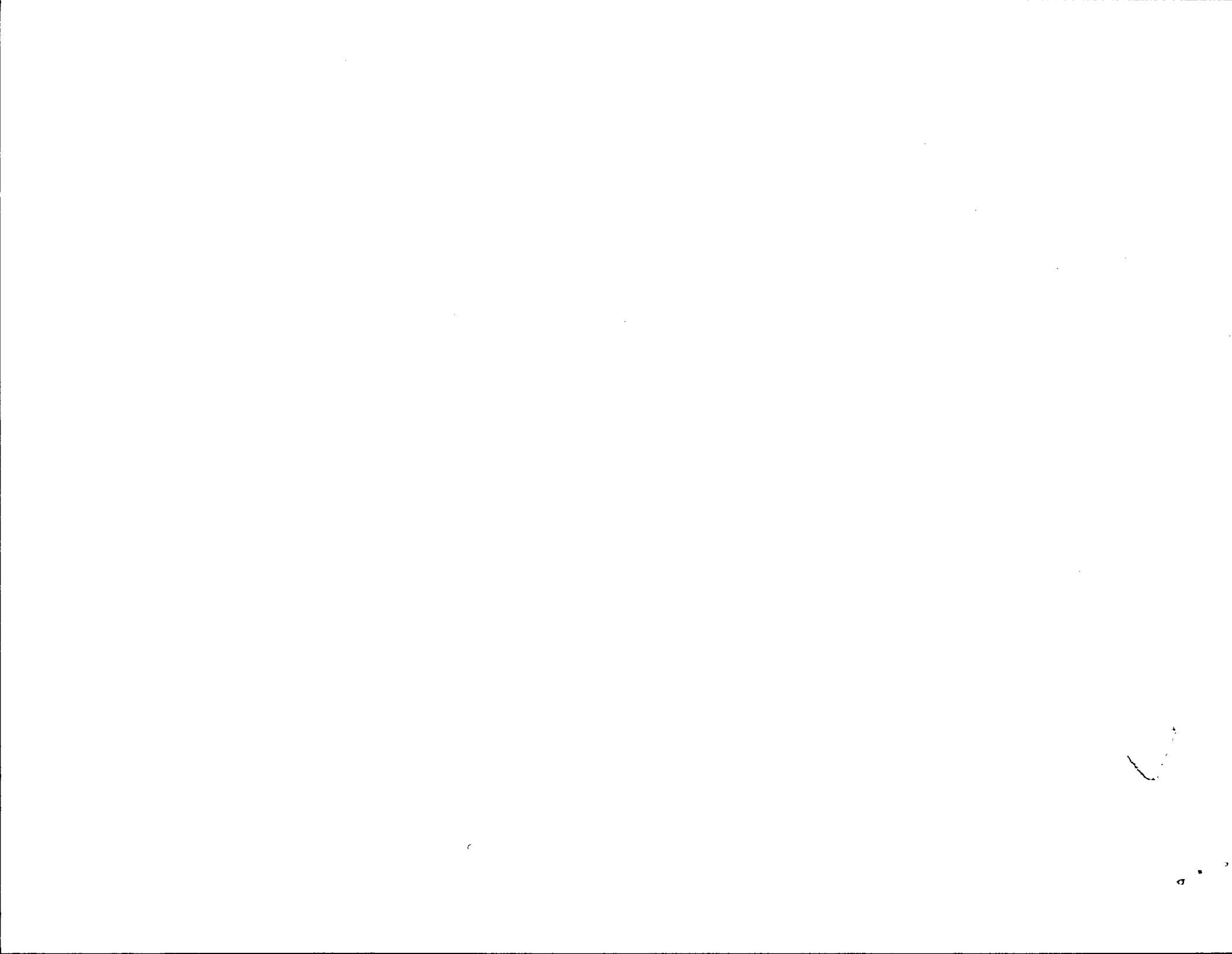
SPECIAL INSTRUCTIONS:

We Thank You For Your Continued Business!

MONROE TAX ID: 47-3784072

ECAS, LLC dba MONROE AEROSPACE
 399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975 FAX: 321.727.7331

10/10/17



**PACKING SLIP**

INVOICE #: 576900

DATE PRINTED: 10/10/2016

TIME: 3:11:51 PM

OF ITEMS: 6

PAGE: 2

TO: DART AEROSPACE LTD.
ACCTS. PAYABLE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

ATTN: CHANTAL LAVOIE
Ph: 613.632.3336 Fax: 613.632.5246

SHIP TO: DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

INVOICE DATE: 10/10/2016

TERMS: NET 30

WEIGHT: 5.3

SHIP VIA: 113-FX INT ECONOMY

ORDER DATE: 10/5/2016

CUST PO: PO33856

OF BOXES:

SHIP DATE: 10/10/2016

FOB: MELBOURNE, FL

SHIPMENT #: 0

SALES ORDER #: 514071

AWB: 665770302000

YOUR MONROE ACCOUNT REP: Luis Sepulveda

ITEM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM	
6	MS27039-1-16 STRUCTURAL SCREW	100.00	0.00	NE			

MFR: LFC

LOT: S51583

Control #: 119878-1

10/10/16
S. Sepulveda

SPECIAL INSTRUCTIONS:

We Thank You For Your Continued Business!

MONROE TAX ID: 47-3784072

ECAS, LLC dba MONROE AEROSPACE
399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975 FAX: 321.727.7331





MONROE TAX ID: 47-3784072

Invoice

INVOICE #: 576900

DATE PRINTED: 10/10/2016

TIME: 3:11:17 PM

OF ITEMS: 6

PAGE: 1

TO: DART AEROSPACE LTD.
ACCTS. PAYABLE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

ATTN: CHANTAL LAVOIE
Ph: 613.632.3336 Fax: 613.632.5246

SHIP TO: DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

INVOICE DATE: 10/10/2016

TERMS: NET 30

WEIGHT: 5.3

SHIP VIA: 113- FX INT ECONOMY

ORDER DATE: 10/5/2016

CUST PO: PO33856

OF BOXES:

SHIP DATE: 10/10/2016

FOB: MELBOURNE, FL

SHIPMENT #: 0

SALES ORDER #: 514071

AWB: 665770302000

YOUR MONROE ACCOUNT REP: Luis Sepulveda

ITEM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM	TOTAL AMT
1	AN3-3A BOLT UNDRILLED	50.00	0.00	NE	0.0700	EA	\$3.5000
2	CCR264SS3-06 CHERRY RIVET	100.00	0.00	NE	0.2200	EA	\$22.0000
3	CR3213-5-03 CHERRY RIVET	100.00	0.00	NE	0.4000	EA	\$40.0000
4	MS21919WDG9 CLAMP	100.00	0.00	NE	0.4800	EA	\$48.0000
5	MS27039-0819 STRUCTURAL SCREW	100.00	0.00	NE	0.1400	EA	\$14.0000
6	MS27039-1-16 STRUCTURAL SCREW	100.00	0.00	NE	0.1200	EA	\$12.0000

*** Order Complete ***

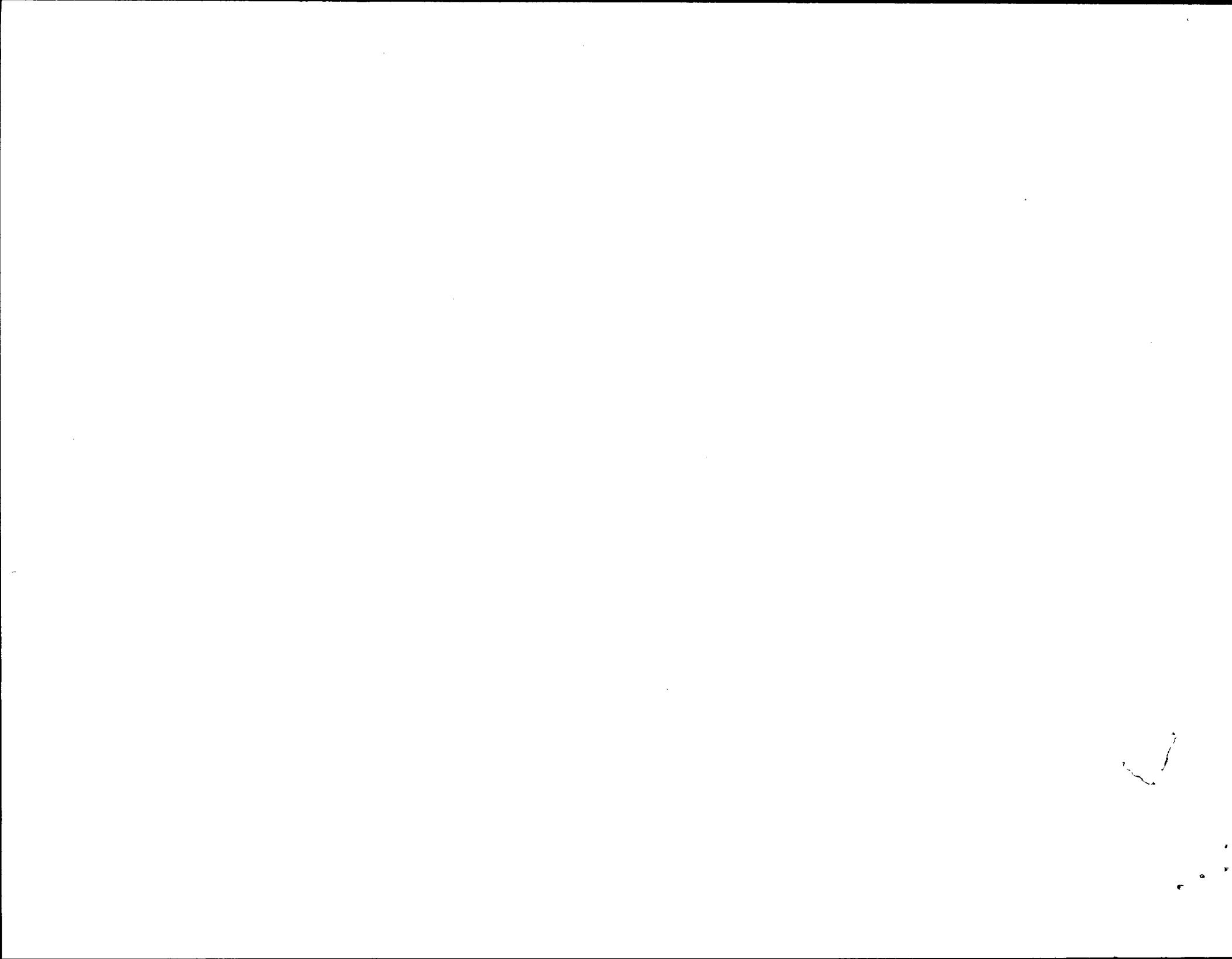
SPECIAL INSTRUCTIONS:

We Thank You For Your Continued Business!

SUB TOTAL:	\$139.5000
TAX TOTAL:	\$0.0000
MISC CHARGE:	\$0.0000
FREIGHT:	\$0.0000
TOTAL:	\$139.50
	USD

ECAS, LLC dba MONROE AEROSPACE

399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975 FAX: 321.727.7331





CERTIFICATE OF CONFORMITY

NO: 576900

BILL TO:

DART AEROSPACE LTD.
ACCTS. PAYABLE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

SHIP TO:

DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

CUSTOMER PO	SHIP DATE	AIRWAY BILL/TRACKING #
PO33856	10/10/2016	665770302000

PART NO:	Description	CND	QTY	S/L	
AN3-3A	BOLT UNDRILLED	NE	50	57	LOT: 25270 MFR: AFC
CCR264SS3-06	CHERRY RIVET	NE	100	27	LOT: 87743839 MFR: CHERRY
CR3213-5-03	CHERRY RIVET	NE	100	72	LOT: 87952978 MFR: CHERRY
MS21919WDG9	CLAMP	NE	100	38	LOT: UMP109874 MFR: UMPCO
MS27039-0819	STRUCTURAL SCREW	NE	100	13	LOT: 80838 MFR: CRESCENT
MS27039-1-16	STRUCTURAL SCREW	NE	100	22	LOT: S51583 MFR: LFC

CONDITIONS: NE - New OH-OVERHAULED RP-REPAIRED SV-SERVICEABLE

We hereby certify that the items that are a part of this Purchase Order have been visually & dimensionally found to conform to all applicable standards, drawings & specifications. The liability of ECAS, LLC is limited to replacement of any item which is rejected because of a defect in material or workmanship if notified within 30 days & liability shall not exceed the invoice value. Such replacement shall constitute satisfaction of all liability.

SIGNED:

For and on behalf of ECAS, LLC dba MONROE AEROSPACE

Insp.
#2

INSPECTOR'S STAMP





2655 Harrison Ave. SW
Canton, Ohio 44706-3047
Phone: 330-430-6190
Fax: 330-430-6199

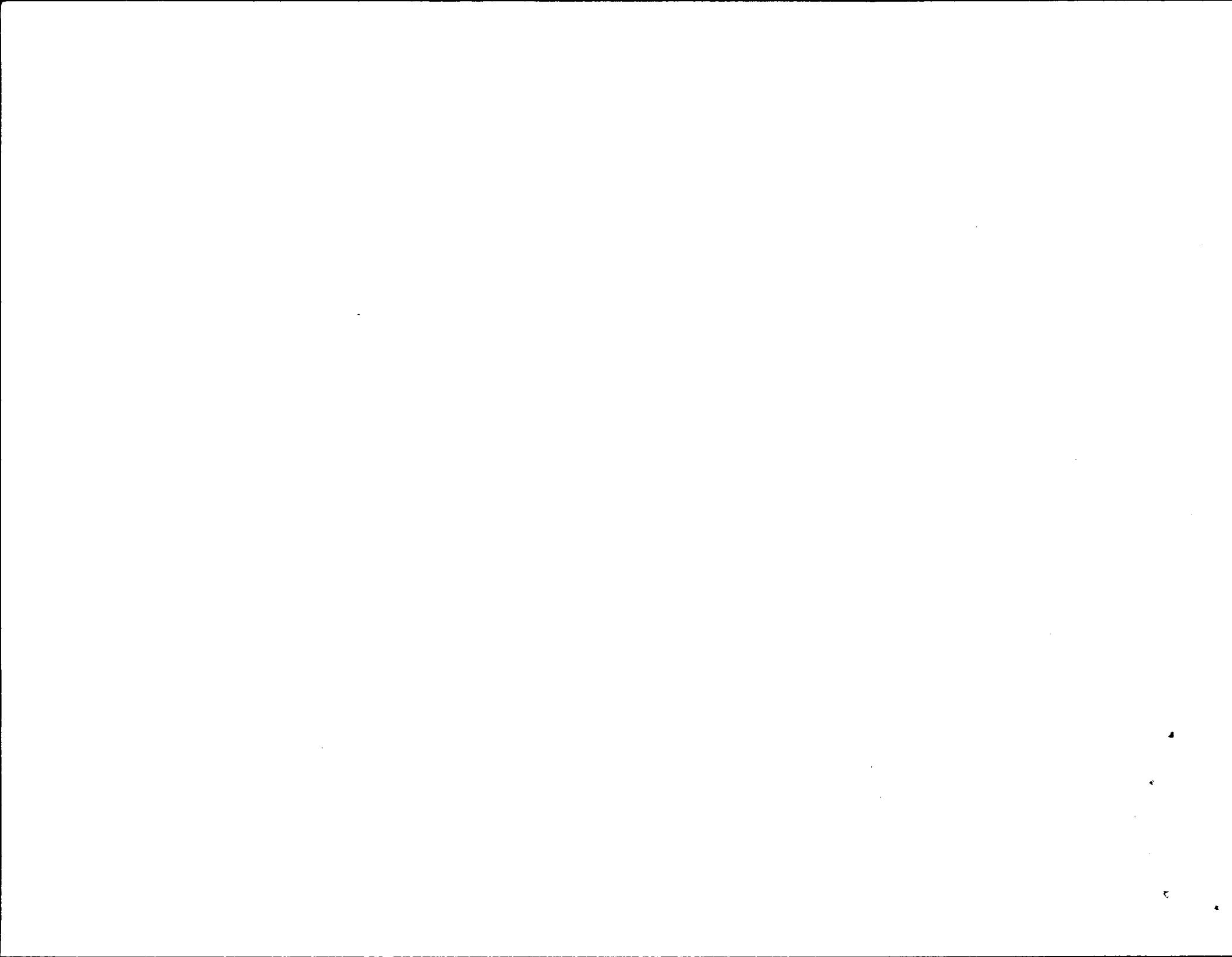
CERTIFICATE OF CONFORMANCE

ECAS

I Hereby Certify that on 02/2/16 Airfasco Industries provided the supplies called for by Contract/PO Number FL75927 in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7009 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

Quality Assurance Representative

WM. DENT





2655 Harrison Ave. SW
Canton, Ohio 44706-3047
Phone: 330-430-6190
Fax: 330-430-6199

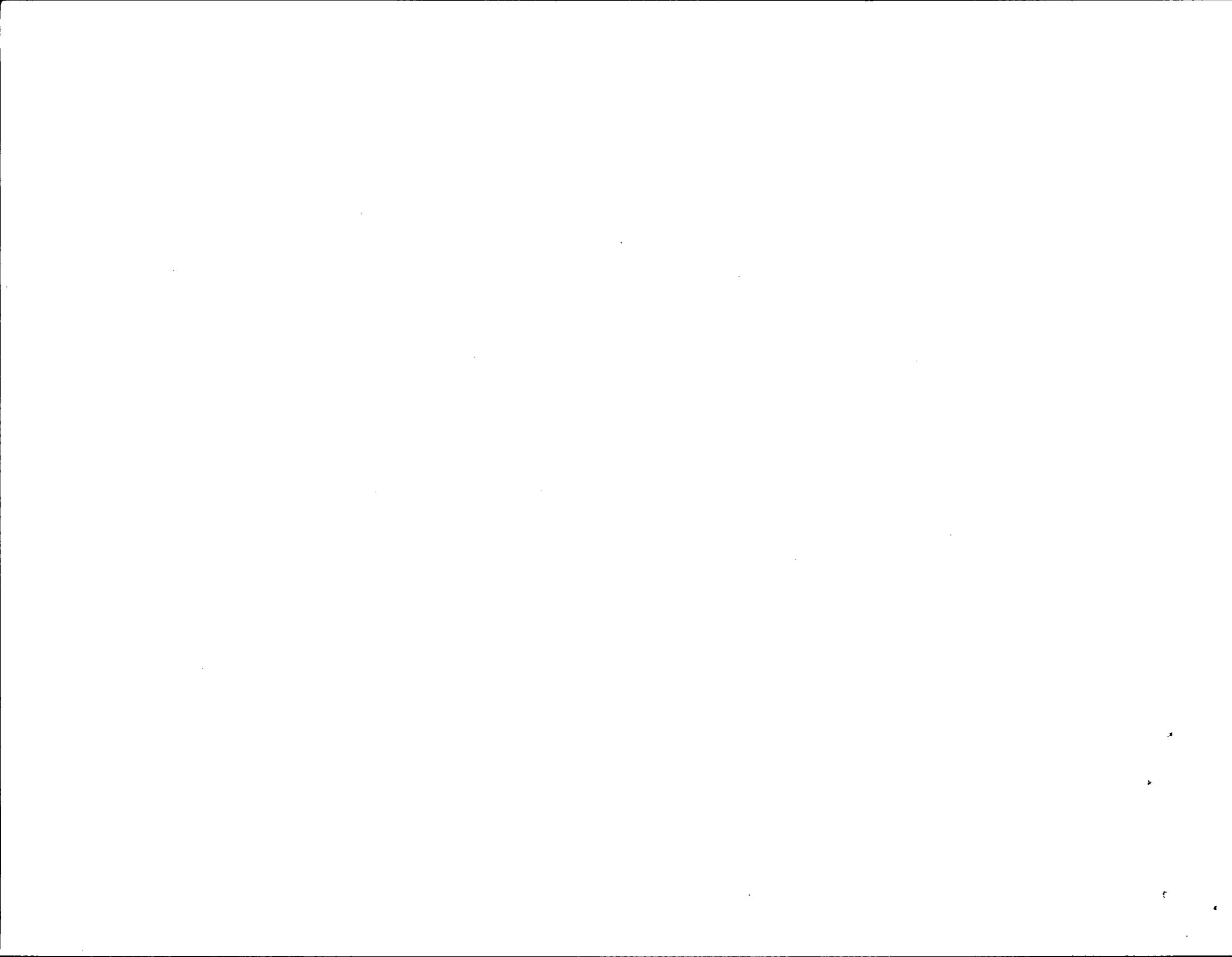
CERTIFICATE OF CONFORMANCE

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Quality Assurance Representative

WM BENT





2655 Harrison Ave. SW
Canton, Ohio 44706-3047
Phone: 330-430-6190
Fax: 330-430-6199

PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 05/20/15

PART NO.: AN3-3A per NASM3-3A rev.3

AFC LOT NO.: 25270

QTY MFG.: 142,000

PROCUREMENT SPECIFICATION: Produced per NASM 6812

HEAT TREAT

VENDOR: Brite Metal

CERTIFICATION NO.: 169347

PROCUREMENT SPECIFICATION: Heat Treat per AMS 2759

PLATING

VENDOR: Cleveland Plating

CERTIFICATION NO.: 61872

PROCUREMENT SPECIFICATION: Cadmium Plate per QQ-P-416 C, Type II, Class 2

MATERIAL

MILL: Solon Wire COUNTRY OF MELT: USA HEAT: 5170096

GRADE SPECIFICATION: Alloy Steel per AMS 6300 E, Type 4037, .218"

4037 MATERIAL CHEMISTRY											Other
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other
LADLE	.390	.830	.006	.005	.200	.040	.009	.230	.060	.021	

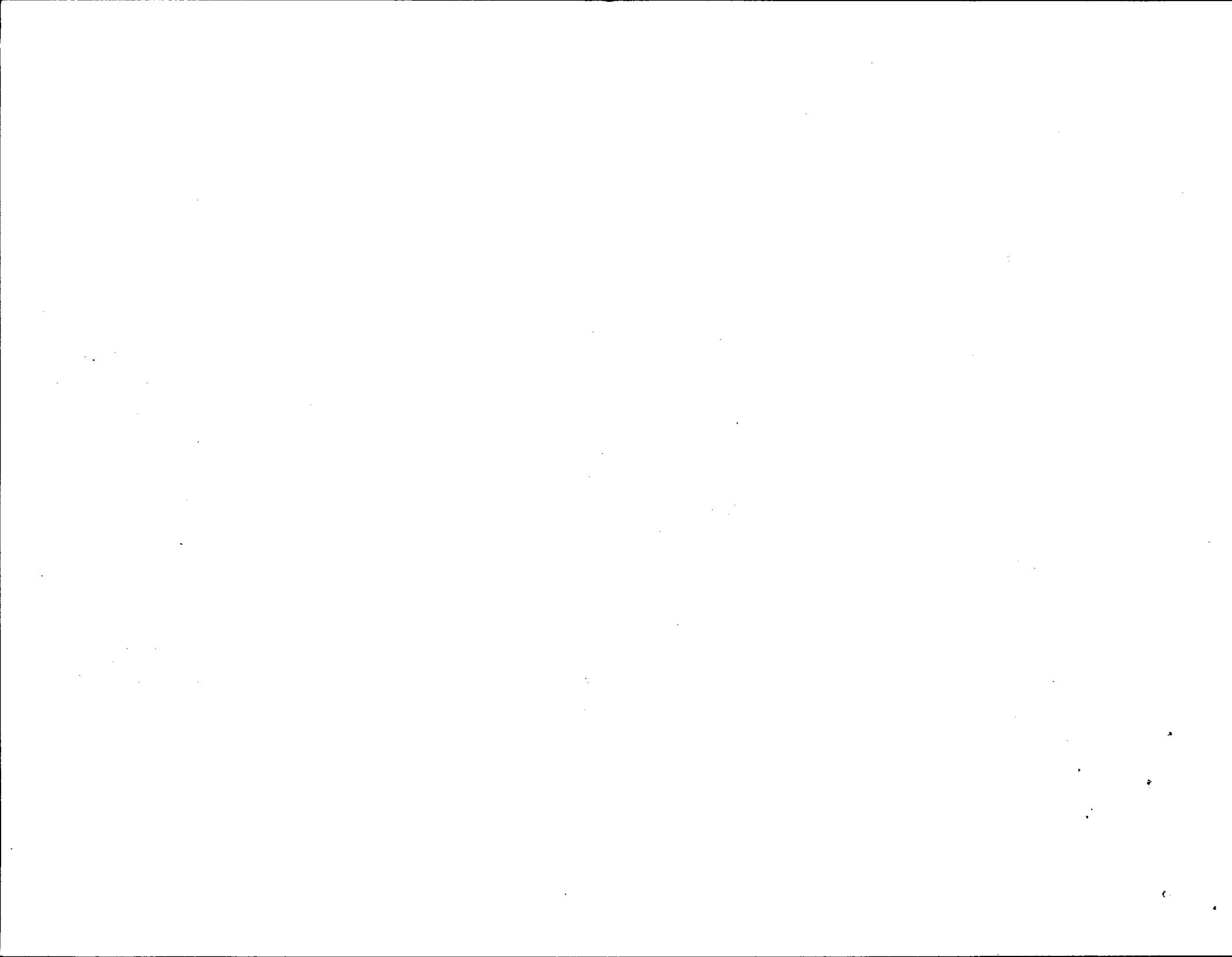
PHYSICAL PROPERTIES				
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	2,210 lbs.	1,690 lbs.	2,125 lbs.	HRC 26-32
ACTUAL	3,947 lbs.	3,020 lbs.	2,721 lbs.	HRC 29-30

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

QS-082
REV 0
2/15

Airfasco Industries
Quality Assurance Representative:

T. West
T. West



P.O. NO. 6896
FEARLESS SALES CORP.
240 BEACHAM ROAD
PO BOX 66
EL MONTE NEW YORK
SAME AS ABOVE

CHERRY COMMERCIAL FASTENERS
AND TOWNSEND/RICHLINE
Townsend Division of Textron Inc.
1224 East Warner Ave., Box 2157
Santa Ana, California 92707
714/540-6611 or 213/979-2121

TOWNSEND TEXTIRON

CUSTOMER AND Q.E. NUMBER

Velveto

卷之三

CERTIFICATION

ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing of this shipment (as shown below) on the subject Purchase Order conform to the order and applicable specifications. Evidence that the material and/or parts meet the specifications and results of effects for each lot affected will be in our files and will be available for your inspection at any reasonable time.

We further certify that the parts are of United States of America manufacture.

Quality Control Manager

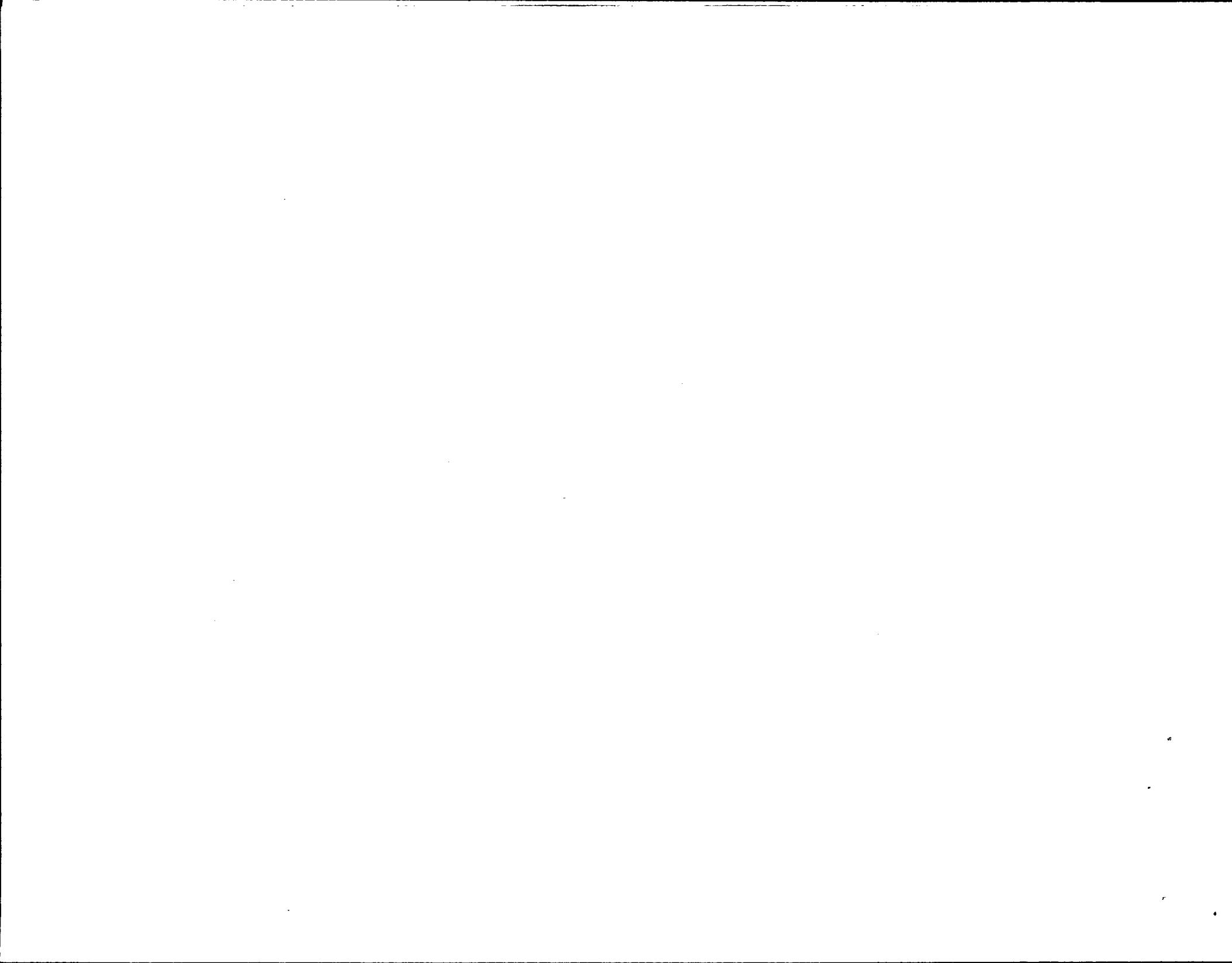
સિદ્ધાંત

Subscribed and sworn to before me this _____ day of _____

day of

— 19 —

1900 and for the County of Orange,
State of California, etc.





CHERRY®
AEROSPACE
SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA

PACKING LIST

Order No: SO379668
Order Date: 10/17/13
Print Date: 06/09/14

Page: 2

Sold-To: 10016384

Ship-To: 10016384

S O L D T O	PEERLESS AEROSPACE FAST 141 EXECUTIVE BLVD. PO BOX 710 FARMINGDALE, NY 11735 USA
----------------------------	--

S H I P T O	PEERLESS AEROSPACE FAST 141 EXECUTIVE BLVD. PO BOX 710 FARMINGDALE, NY 11735 USA
----------------------------	--

Ln	Item Number	Site T Location Lot/Serial	Qty Open Qty to Ship	UM	Promised Shipped
3	CR3213PR-5-03 MBBN3012L4003 NAS9301B-5-03 NAS9301BNS-5-03 [REDACTED]	EZL-A41 87952978	29000.0	()	
	[REDACTED]	EZL-A52 87949724	4800.0	()	
	[REDACTED]	EZL-A55 87949726	34900.0	()	
	[REDACTED]	EZL-A79 87952977	33100.0	()	



**TEST REPORTS ENCLOSED
DO NOT DESTROY**

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

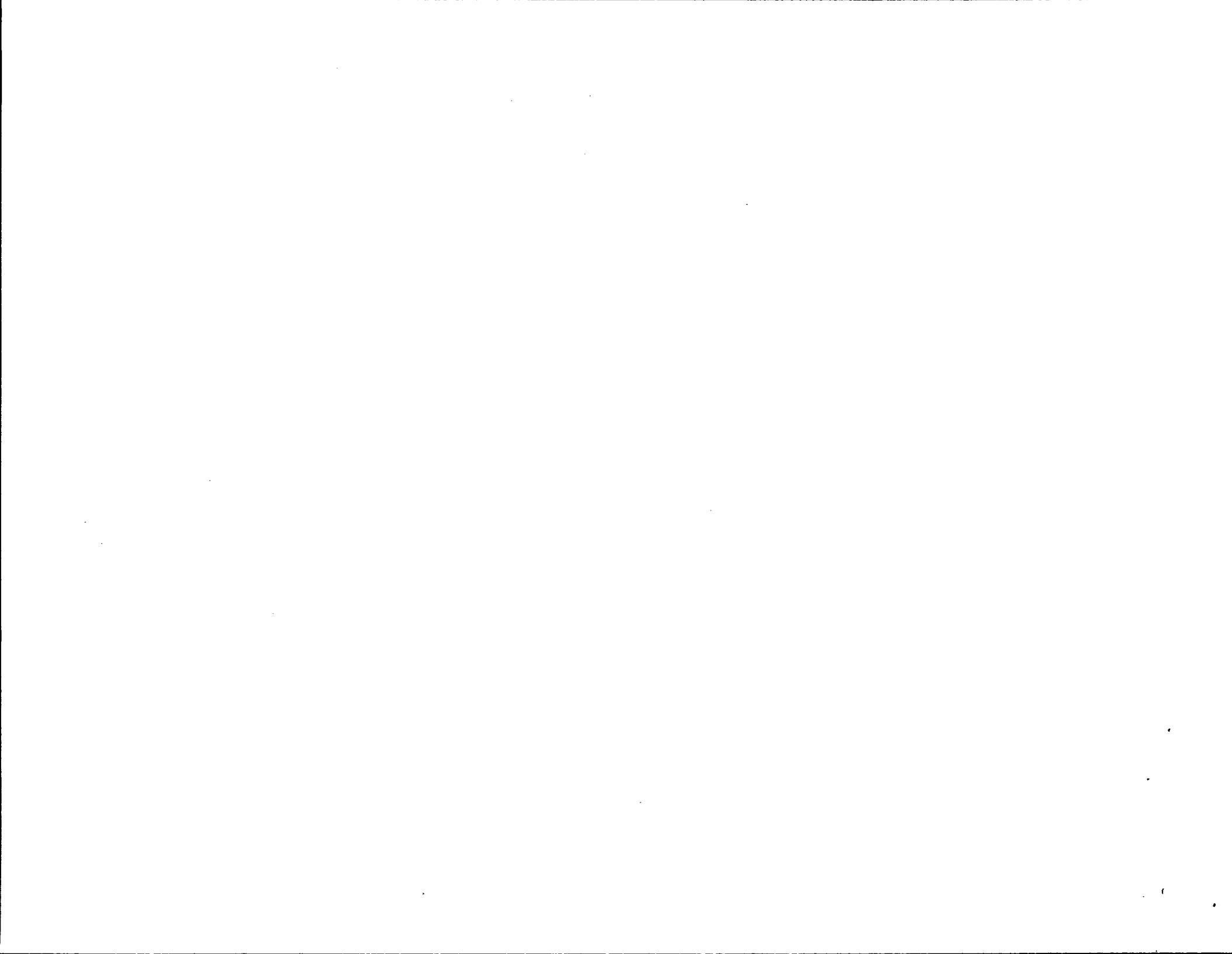
ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications. Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

Quality Assurance Representative

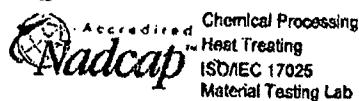
Signed

SIM NGUYEN





1224 East Warner Avenue
Santa Ana, CA 92707-0157



An ISO9001 and AS9100 registered company. OASIS #6111041608

Final Inspection & Test Report CherryMax® Rivet

Part Numbers	Rev	Proc. Spec.	Rev
CR3213PR-5-03	AB	PS-CMR-3000	R
CR3213-5-03	AB	PS-CMR-3000	R

** See 2nd Page for the Customer Parts

Lot I.D. No.:	87952978
Lot Size:	32,000
MFG. Date:	June 03, 2014

ASSEMBLY DATA

TYPE	ID #	CERT #	MATERIAL	FINISH	LUBE
Rivet	87946046	A74620	QQ-A-430/5056	MIL-C-5541 CLEAR CL1A	None
Stem	87875165	A73878	AMS6322 / 8740ST	QQ-P-416/T2CL2/CAD PL	None
Collar	00000000	A74491	A-286 / AMS5731	Passivate per AMS2700	None

W.O. #: 5549408

Final Lube: None

QUALITY CONFORMANCE/ACCEPTANCE RESULTS

MIN REQ'D SAMPLE SIZE SPECS	INSTALLED SHEAR		TENSION		SPINDLE RETENTION			DISASSEMBLY	
	840		445		200				10
	8	N/A	8	N/A	5	8	N/A	5	
RESULTS	1415		583		562	439			36
	1429		542		484	442			29
	1431		576		490	423			100
	1408		557		496	453			34
	1399		565		510	514			100
C=CR N=NAS	1453		592			453			
M=MIL B=BAC	1316		583			467			
LOAD VALUES IN POUND	1364		481			444			

PCS.	ITEM	STATUS	PCS.	ITEM	STATUS
20	EXAMINATION	PASS	20	INSTALLATION (Min and Max Grips)	PASS

Comments:	Tr. Rev: 1	Q. Code: V09
Blind Fastener	Rev. Date: 6/3/2014	
	Inspector: D Rice	ACC 377

The parts contained in this shipment have been manufactured and inspected in accordance with TSO-C14B. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may only be done if acceptable to or approved by the Administrator.

This test report shall not be reproduced except in full, without the written approval of the laboratory.
The recording of false, fictitious, or fraudulent statement or entries on the certificate may be punished as a felony under Federal law.





CHERRY AEROSPACE

1224 East Warner Avenue
Santa Ana, CA 92707-0157



Accredited
Chemical Processing
Heat Treating
ISO/IEC 17025
Material Testing Lab

Final Inspection & Test Report
CherryMax® Rivet

An ISO9001 and AS9100 registered company. OASIS #6111041606

Customer Parts List

Lot I.D. No.: **87952978**
Rev: **1**

<u>Customer Part Number</u>	<u>Rev</u>	<u>Proc. Spec.</u>	<u>Rev</u>
NAS9301BNS-5-03	5	NAS1686	3
132269A503	F	MIL-R-7885	D2
132269A503	F	NAS1686	3
132269A503	F	PS-CMR-3000	R
ASNA0078A503	P	MIL-R-7885	D2
ASNA0078A503	P	NAS1686	3
ASNA0078A503	P	PS-CMR-3000	R
B0207005-5-03	E	MIL-R-7885	D2
B0207005-5-03	E	NAS1686	3
B0207005-5-03	E	PS-CMR-3000	R
CAN43078B5-3	8	MIL-R-7885	D2
CAN43078B5-3	8	NAS1686	3
CAN43078B5-3	8	PS-CMR-3000	R
M7885/2-5-03	D2	MIL-R-7885	D2
MBBN3012L4003	01/06	MBBN3015	12/03
NAS9301B-5-03	5	NAS1686	3

Parts delivered in accordance with the standard amendments as agreed by Cherry/EADS.





Product Certification And Testing Report

Customer:
CHERRY AEROSPACE LLC
 ATTN: ACCTS. PAYABLE
 1224 EAST WARNER AVENUE
 P.O. BOX 2157
 SANTA ANA CA 92707-0157

Date >> 3/25/2014

Customer PO No. BWC Lot No. Date Shipped:
 PO162286 25607 3/25/2014
 Cust Item ID: M005.1540

BWC Item No.
 501540532041A01

Description:
 .154" DIA. +/- .001" #4F 5056 - H32
 #4 FINISH, ALUMINUM COLD HEADING WIRE X 22"
 BLOCKWOUND 100# COILS.

Specifications:

CUST SPEC	M-5	REV. T
FED SPEC	QQ-A-430	REV. C

Alloy	Chemical Limits								Others Total	Aluminum Remainder	Case No.	Diameter (in)	Test Results			
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti					Yield (psi)	Peak Load (lbs)	EL %	Grain Size
5056	.30	.40	.10	.05 - .20	4.5 - 5.6	.05 - .20	.10		.05	.15						
852641	.06	.12	.01	.06	4.8	.08	.01	.01			41450-1	398	0.1545	48,220.0	904.1	
											Total Weight:	398				

APR 16 2014



A74620

Beneke Wire Company

WE CERTIFY THAT SAMPLES REPRESENTING THE MATERIAL COVERED IN THIS REPORT HAVE BEEN INSPECTED AND FOUND TO MEET THE COMPOSITION LIMITS AND MECHANICAL PROPERTIES SHOWN ABOVE. ANY WARRANTY IS LIMITED TO THAT SHOWN ON BENEKE WIRE COMPANY'S STANDARD TERMS AND CONDITIONS OF SALE.

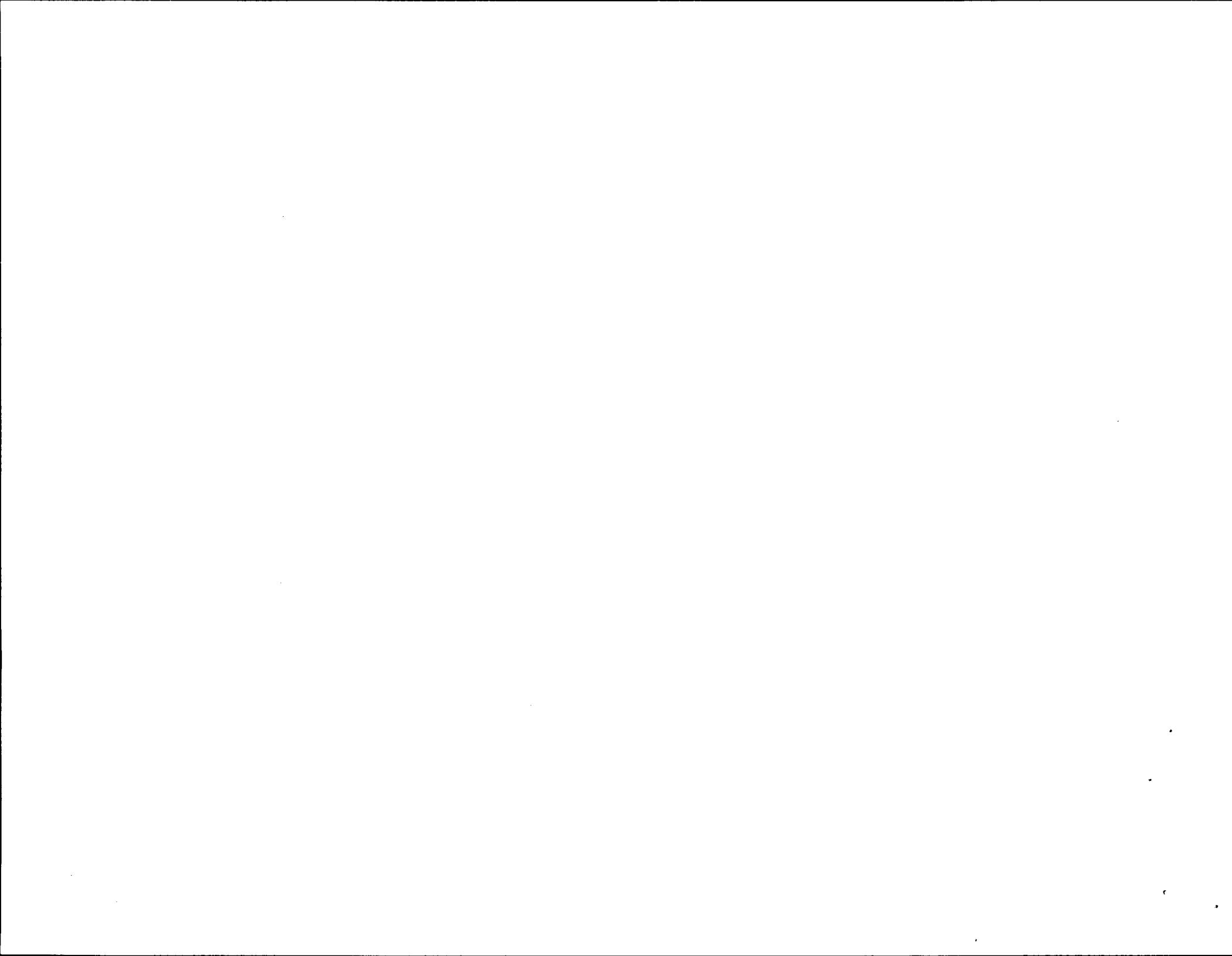
Authorized
Signature

Shannon King, Plant Metallurgist

Phone: (502) 367-6434

5540 National Turnpike

Louisville, KY 40214



*Best in Class***CERTIFIED TEST REPORT**<http://Online.KaiserAluminum.com>

Kaiser Aluminum Fabricated Products, LLC
800 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
KAISER ORDER NUMBER: LINE ITEM:				ALLOY: ALY-JUMBO			
172559815	1	SHIP DATE:	02/21/2014	ALLOY:	K540	TEMPER:	
WEIGHT SHIPPED:	QUANTITY:	BL. NUMBER:		DIAM/DAF/THKNS:		WIDTH:	LENGTH:
19760 lbs.	92 pcs.	9203				0.000 in.	0.0 in.
SHIP TO:				SOLD TO:			
BENEKE WIRE COMPANY 5540 NATIONAL TURN PIKE LOUISVILLE, KY 40214				BENEKE WIRE COMPANY 5540 NATIONAL TURN PIKE LOUISVILLE, KY 40214			

Test Code: 4000

Actual Physical Properties

Lot No.

852641 0.0

Chemical Composition, WT. % (Aluminum Remainder)

Lot	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
Cast/Drop								
ChemID								
852641								
63-1F2	Act.	0.06	0.12	0.01	0.06	4.8	0.08	0.01
187897								
Chemical	Min				0.05	4.5	0.05	
Limits	Max	0.30	0.40	0.10	0.20	4.9	0.20	0.05
	Others	Each	0.05	Max		Total	0.15	Max

APR 16 2014



A74620



Plant Serial: 35096
Kaiser Order Number: 172559815
Line Item: 1



KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum Fabricated Products, LLC
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

Miscellaneous Notes

Made in USA

Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. Actual (Act) chemical composition is from representative samples taken during the ingot casting process. Independent chemical analysis will vary from these values because of natural variation in the process and testing error. This test report shall not be reproduced, except in full, without the written approval of Kaiser Aluminum. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law. Chemical analysis performed in accordance with ASTM E 1251-11. The Newark facility is AS9100C:2009 approved. The Newark Laboratory is NADCAP approved for chemical testing (OES).

The products you inquired and ordered are not governed by any applicable industry standard or custom specifications. They are produced, tested and released as such. By placing an order, you acknowledge and accept the full responsibility and liability for their fitness for the intended end use or end uses.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLP ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales order acknowledgement form. Any warranty is limited to that shown on Kaiser's standard general terms and conditions.

Steven J. Tua, Technical Manager



APR 16 2014



Plant Serial: 35096

Kaiser Order Number: 172559815

Line Item: 1





WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

CHERRY AEROSPACE LLC
1224 E. WARNER AVENUE
SANTA ANA, CA 92705-5414
USA

CERTIFICATION

WORK ORDER
102739

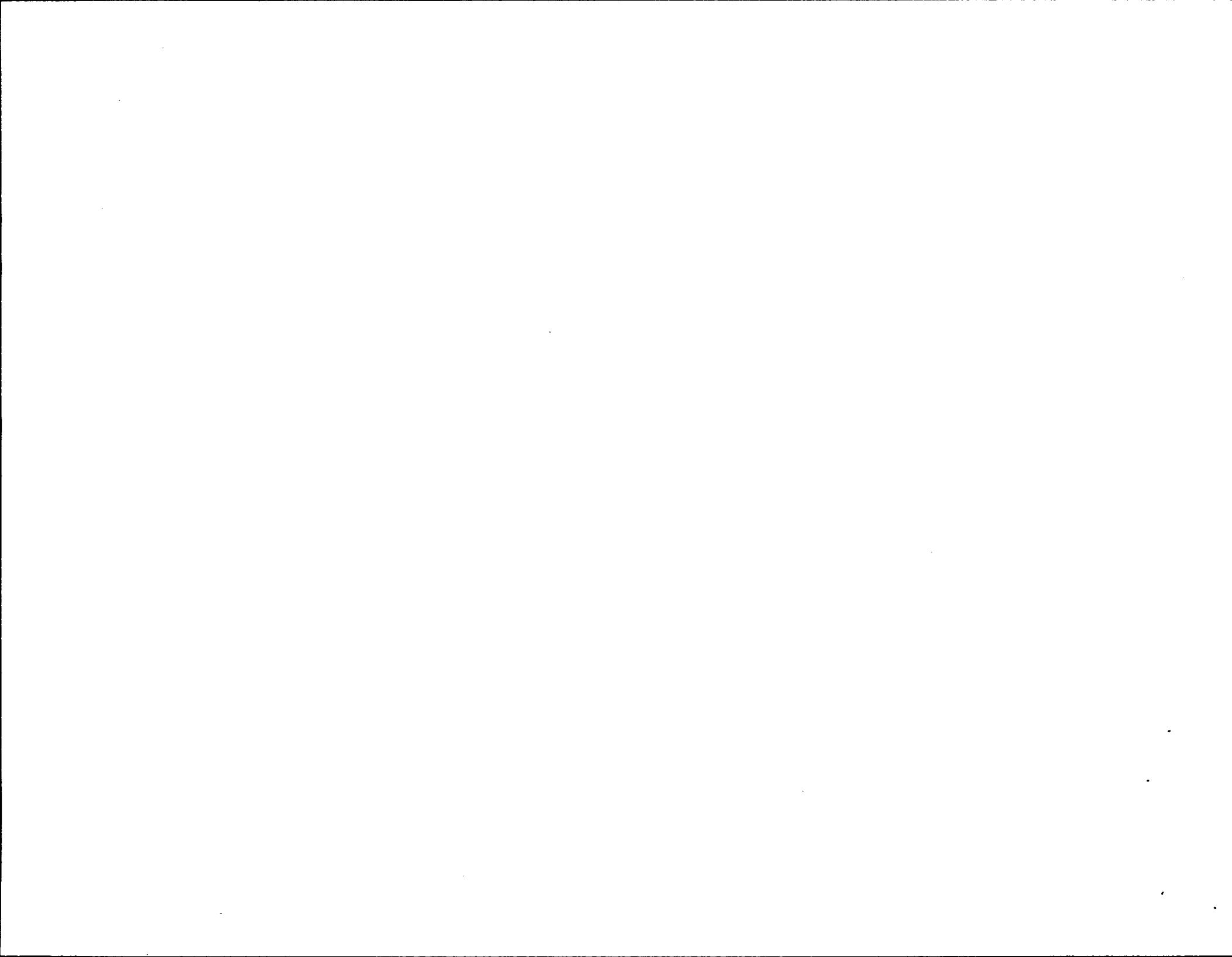
HEAT NO.
10269481
SALES ORDER / RLS
852086 / 1
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

CERT# 911.01

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	CARRIERS	LADING NO	SHIPMENT DATE				
VP201301	M272.1145	2,164 Lbs	4	00106668	10/26/2013				
SPECIFICATION C208740-101145A									
A-8740, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating.									
Size: 0.1135/0.1155 Specifications: AMS 2301K, AMS6322N, MIL-S-6049A, AMEND1, ASTM-A-647, AMS-S-6049-A, M 272.1145 REV. T									
CERTIFICATION REQUIREMENTS									
Chemical Properties									
C .40	Si .26	Mn .87	P .009	S .005	Cu .08	Ni .44	Cr .54	Mo .22	
Physical Properties									A73879
Grain Size Jominy 1 Jominy 2 Jominy 3 Inclusions Macro Cleanliness Mill Source									
6 j5=55	6 j8=49	J10=46	S2-R1-C2	GOOD	F&S=0	Charter			
Country of Origin USA - DFAR Compliant									
Mechanical Properties									
TEST	UNITS							Results	
Tensile Strength	KSI							130.0	
Yield Strength	KSI							110.5	
% Elongation	%							7	
% Reduction of Area	%							57.7	
Rockwell Hardness C Scale	HRC							28	
Decarb (Total)	In							0.00	
REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.									
Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 416, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IF 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Mill Source results transcribed from mill certificates. HRC(HV) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRS and HRC results are conversions from ASTM A570 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.									
TEST RESULTS RELATE ONLY TO THE ITEMS TESTED. LATEST REVISIONS OF ASTM									
DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)									
Material is free of mercury, radium, or alpha contamination.									





**CHARTER
STEEL**

A Division of
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road.
Saukville, Wisconsin 53080

(262) 268-2400
1-800-437-8789
FAX (262) 268-2570

CHARTER STEEL TEST REPORT
Reverse Has Text And Codes

Wiretech Incorporated
6440 East Canning Street
Los Angeles, CA-90040

Cust P.O.	7070-6
Customer Part #	8740C1A060-C
Charter Sales Order	70044420
Heat #	10269481
Ship Lot #	4223790
Grade	8740 R SK FG AQ 1/4
Process	HRSA
Finish Size	1/4

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10269481												
Lab Code: 7388	C	MN	P	S	SI	NI	CR	MO	CU	SN	V	
CHEM	.40	.87	.009	.005	.260	.44	.54	.22	.08	.006	.004	
%Wt												
AL	N	B	TI	NB								
.024	.0060	.0001	.002	.002								
JOMINY(HRC)	JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM12	
56	56	56	56	56	55	52	50	49	47	46	43	
JOM14	JOM16	JOM18	JOM20	JOM24	JOM28	JOM32						
41	38	37	36	34	32	31						

JOMINY SAMPLE TYPE ENGLISH = C
MACRO ETCH SURFACE = 1 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1
AMS 2301 FREQUENCY AVERAGE = .03 AMS 2301 FREQUENCY INDIVIDUAL = .20
AMS 2301 SEVERITY AVERAGE = .06 AMS 2301 SEVERITY INDIVIDUAL = .34
CHEM. DEVIATION EXT.-GREEN =

NOV 02 2013

Test Results of Rolling Lot# 1104601												
REDUCTION RATIO = 616:1												

Test Results of Processing Lot# 4222528,4223790												
	# of Tests	Min Value	Max Value	Mean Value	TENSILE (KSI)	RA LAB = 0358-02	RB LAB = 0358-02					
REDUCTION OF AREA (%)	2	66	69	67								
ROCKWELL B (HRBW)	2	83	84	83								

NUM DECARB = 8 FREE FERRITE DECARB (Inch) = .000 FREE FERR & PARTIAL DECARB (Inch) = .002
CP SPHERO % LAB = 0358-02 NUM SPHERO = 2 SPHERODIZATION (%) = 86.3

Specifications: Manufactured per Charter Steel Quality Manual Rev. Date 09/12/12
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = AMS6322N/AMS2301K/COP3010MBS2S147:1976 CHEM ONLY Revision = Dated =

Additional Comments:



Charter Steel
Saukville, WI, USA



Rem: Load1,Fax0,Mail0

Page 1 of 1

This MTR supersedes all previously
dated MTRs for this order

Janice Barnard
Manager of Quality Assurance
09/05/2013



The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States meeting OFAR's compliance.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory	Address		
0358-01	7388	CSSM	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080	
0358-02	8171	CSSR/CSSP	Charter Steel Rolling/Processing Division	1658 Cold Springs Road, Saukville, WI 53080	
0358-03	123633	CSFP	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457	
0358-04	125544	CSCM/CSCR	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004	
		--	Subcontracted test performed by laboratory not in Charter Steel system		

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Specification	CSSM	CSSR/CSSP	CSFP	CSCM/CSCR
Chemistry Analysis	ASTM E415; ASTM E1019	X			X
Macroetch	ASTM E381	X			X
Hardenability (Jominy)	ASTM A255; SAE J406; JIS G0561	X			X
Grain Size	ASTM E112	X	X	X	X
Tensile Test	ASTM E8; ASTM A370		X	X	X
Rockwell Hardness	ASTM E18; ASTM A370	X	X	X	X
Microstructure (spheroidization)	ASTM A892		X	X	
Inclusion Content (Methods A, E)	ASTM E45		X		X
Decarburization	ASTM E1077		X	X	X

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/15.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.



37 NOV 02 2013



10789461



A73879



Certificate of Conformance

Sold To:
**CHERRY AEROSPACE
 SANTA ANA OPERATIONS
 1224 EAST WARNER AVE
 SANTA ANA, CA 92705-5414**

Date Shipped: 02/21/2014
 PO #: VP125694
 Radcliff No.: 131315
 Heat No.: QN369
 Qty. Shipped: 220 LBS-13-BLACK MIG
 SPOOLS

Item Description

.0075 X .014 X .081 ***	A286 Stainless Steel	SPECIAL SHAPE	AMS 5731 REV L, AMS 5737 REV P CHEM ONLY
Melting Country: France	Producing Country: United States		
Notes: PART# M169.05 REV W			

MAR 19 2014



Chemical Analysis

Al: 0.17%	B: 0.006%	Bi: 0.00002%	C: 0.04%
Co: 0.16%	Cr: 14.84%	Cu: 0.15%	Fe: BAL%
Mn: 1.74%	Mo: 1.25%	Ni: 24.57%	P: 0.015%
Pb: 0.0001%	S: 0.001%	Si: 0.06%	Ti: 2.13%
V: 0.31%			

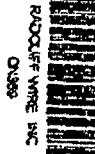
Mechanical Properties

Tensile: 94 KSI

We certify that the chemical analysis, physical properties, and mechanical test results are correct as contained in our records, and that they conform to customer requirements.

Material as shipped, is free from mercury contamination.

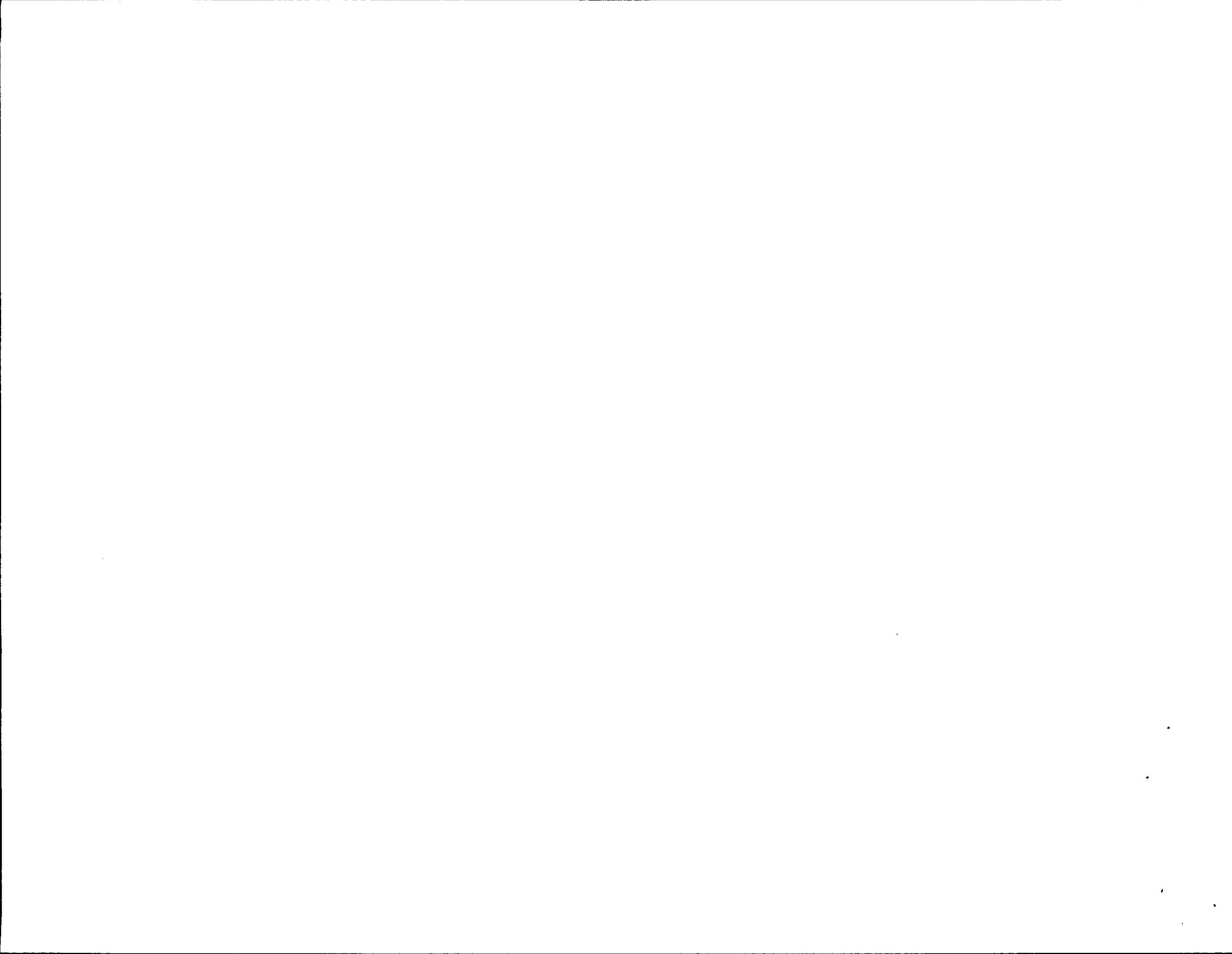
Material is DFAR compliant



A74491

Lisa Piatek
 Certification Clerk





PERTH, ON
ERIN, ON
DUMAS, AB
LANCASTER, SC

613-267-3762 FAX 613-267-6017
619-833-8632 FAX 619-833-2113
870-382-3860 FAX 870-382-4968
803-283-3363 FAX 803-283-6303



Drawing on Innovation
CENTRAL WIRE DIVISION

FOND DU LAC, WI 520-926-0600 FAX 520-926-0662
UNION, IL 815-923-2131 FAX 815-923-2128
PERTH, CA 951-657-2105 FAX 951-843-8081

THE LEADING MANUFACTURER OF STAINLESS STEEL AND NICKEL ALLOY WIRE PRODUCTS
EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: sales@centralwire.com

CENTRAL WIRE
6509 OLSON ROAD
TEL: 815-923-2131

UNION, IL 60180-9730
FAX: 815-923-2128

CERTIFICATE OF CONFORMANCE

SOLD
TO

RADCLIFF WIRE INC.
P. O. BOX 603
BRISTOL
USA

CT 06011-0603

RADCLIFF WIRE INC.
97 RONZO ROAD
BRISTOL,
USA

CT 06011-0603

CUSTOMER'S PO NO.	TYPE OF CERT	CUSTOMER	ORDER NO.	WORK ORDER	DATE SHIPPED
46500	Customer	124610	1181607	1	4143742

SPECIFICATIONS:

ITEM DESCRIPTION		
DESCRIPTION	SPEC. CLASS	HEAT
Forming A286SF SKIN PASSED Bright .0430 200LB.Plas Clean	Melt mill Aperam Country of origin France	QN369
	QTY SHIP 246	044

CHEMICAL ANALYSIS						
C .04	MN 1.74	SI .06	P .015	S .001	CR 14.84	NI 24.57
MO 1.25	CU .15	CO .16	AL .17	TI 2.13	FE Balance	B .006
V .31	BI <.00002	PB <.0001				

MECHANICAL PROPERTIES						
AS SHIPPED PROPERTIES:						
TENSILE 110.000 KSI MIN	TENSILE 113.000 KSI MAX			MAR 19 2014		
AFTER HEAT TREAT PROPERTIES:						

A74491

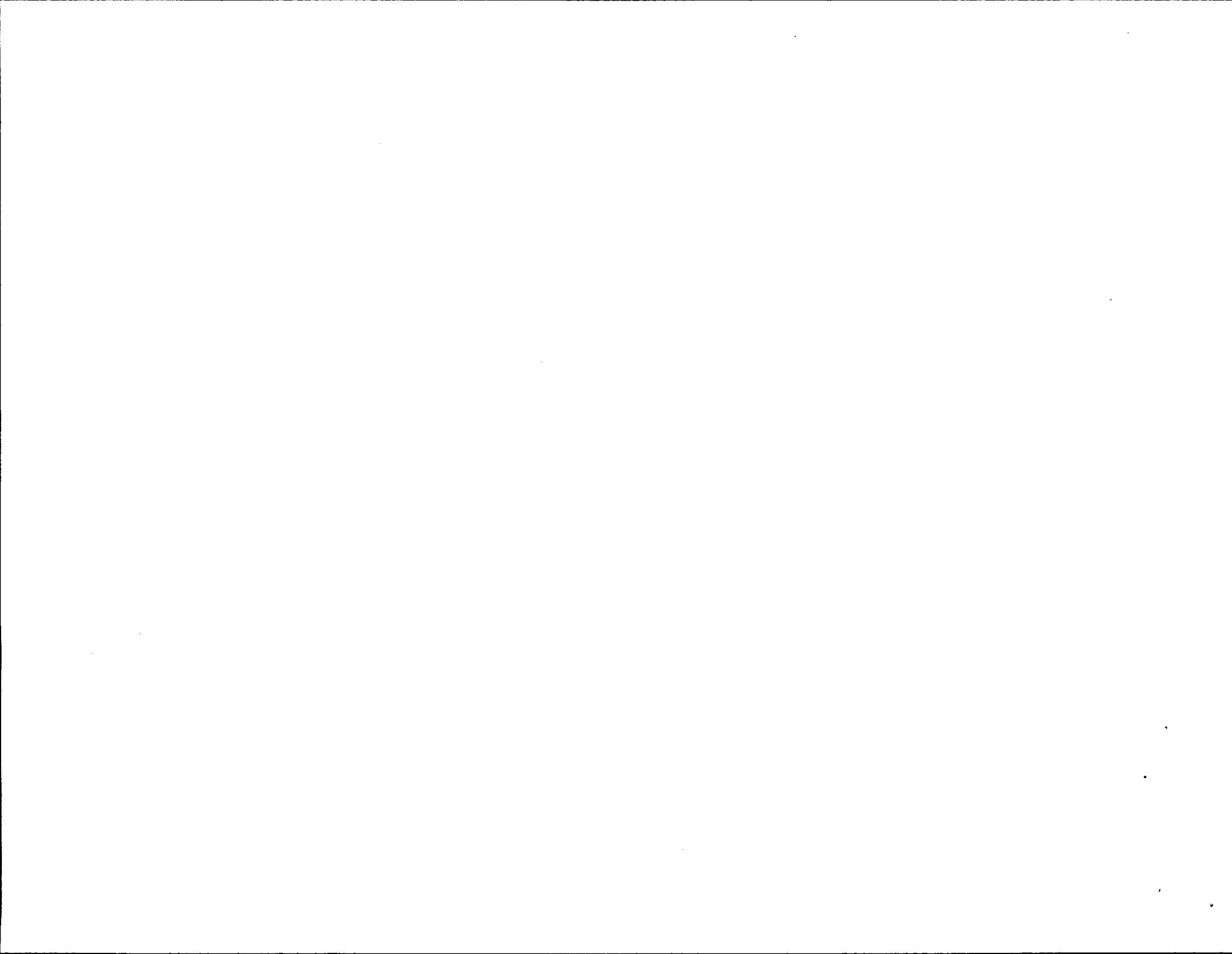
RADCLIFF WIRE, INC.

PASSIVATED IN PROCESS PER AMS 2700C METHOD 1, TYPE 7

The material as shipped is free from mercury contamination. I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.

Very truly yours,

AUTHORIZED SIGNATURE



operam

CERTIFICAT DE RECEPTION 3.1-EN 10204 n°C066257/2

Inspection certificate - Abnahmeprüfzeugnis

Urine - Works - Werk
Alloys Impphy
58160 IMPHY FRANCE
Telephone: 03 85 21 30 00
Telex: 03 85 21 31 00

Client Kund Kunde	Central W UNION	NR Reference Our reference Unser Auftrag Nr.	310514/02
V/Commande Your order Ihr Bestell. Nr.	2010266	dt. on:	01.17.12
Specification Specification Vorschrift	D.3.PRS.010.S REV.B 05/05/11		

Product Produkt Erzeugnis	SY 286 WIRE ROD DIAM/7,5000/MM SS A286 : VAR (.295")	Etat de livraison Condition of delivery: Lieferzustand	SHAVED
		N° de fabr. Nummer, Nr. Fabrik. Nr.	4100266296
		Poids Weight Gewicht	2771.180 LB Stückzahl Part. No. Stückzahl
			4 PI

COMPOSITION CHIMIQUE (2 POIDS) CHEMICAL COMPOSITION CHEMISCHE ZUSAMMENSETZUNG (2 Gewicht)										Caract. N° Mark. Nr. Schweiz. Nr.
C	Mn	Si	S	P	Ni	Cr	Mo	Cu	Co	
.04	1.74	.06	.001	.015	24.57	14.84	1.25	.15	.16	
V	A	Ti	Pb	Bi	B	Fe				
.31	.17	2.13	< .0001	< .00002	.006	bal.				

CARACTERISTIQUES MECANIQUES ET AUTRES ESSAIS / TESTS RESULTS

ETAT DE LIVRAISON

CONDITION OF DELIVERY

RESISTANCE..... TENSILE STRENGTH.... : 607 MPA 88,034 PSI
GRAIN ASTM..... SIZE ASTM..... : 7.5 ASTM

HYPERTREMPE 980°1H EAU+VIEILLISSEMENT 720°16H AIR
HEAT TREATMENT OF SPECIMEN 1000°F WATER+1220°F AIR

LIMITE ELASTIQUE. YIELD STRENGTH 0.2% : 746 MPA
RESISTANCE TENSILE STRENGTH.... : 1115 MPA
ALLONGEMENT ELONGATION SUR 40... : 28.0 %
STRICITION RED. OF AREA..... : 52.0 %
DURETE HB..... HARDNESS..... : 317 HB

FLUAGE

STRESS RUPTURE TEST AT 1200°F (649°C)

UNDER 70,000 PSI (483MPA)

DUREE DE VIE..... TIME..... : 138.4 H

RODUCER WIRE, INC.
A74491

MAR 19 2014

QUALITY CONTROL

DUPUIS G.

Signature
Signature
Unterschrift

07.05.12
Imphy plant

Voir page suivante

PAGE N°: 1



CERTIFICAT DE RECEPTION 3.1-EN 10204 n°C066257/2
 Inspection certificate - Abnahmeprüfzeugnis

Client Customer Kunde	CENTRAL W UNION	NR/Reference Our Reference Unser Auftrag Nr.	310514/02
Y/Commande Your order Ihre Bestell. Nr.	2010266	dt. Von	01.17.12
Specification Vorschrift	D.3.PRS.010.S REV.B 05/05/11		

ALLONGEMENT..... ELONGATION..... 26.0 %

ETAT HYPERTREMPE 900° + VIEILLISSEMENT 720°16H AIR
 HEAT TREATMENT OF TEST SPECIMEN 1650°F IN WATER-1325°F IN AIR

LIMITE ELASTIQUE. YIELD STRENGTH 0.2% : 783 MPa
 RESISTANCE..... TENSILE STRENGTH..... 1109 MPa
 ALLONGEMENT..... ELONGATION 5% : 28.0 %
 STRACTION..... RED. OF AREA..... 51.0 %
 DURETE HB..... HARDNESS..... 333 HB

FLUAGE

STRESS RUPTURE TEST AT 1200°F (649°C)
 UNDER 65,000 PSI (446MPa)
 DUREE DE VIE..... TIME..... : 232.3 H
 ALLONGEMENT..... ELONGATION..... : 31.0 %

MELTING PROCESS: EF+VAR NO WELDING WITH FILLER METAL HAS BEEN
 PERFORMED STRESS RUPTURE AND AGE HARDENING AND CHEMISTRY
 TO MEET

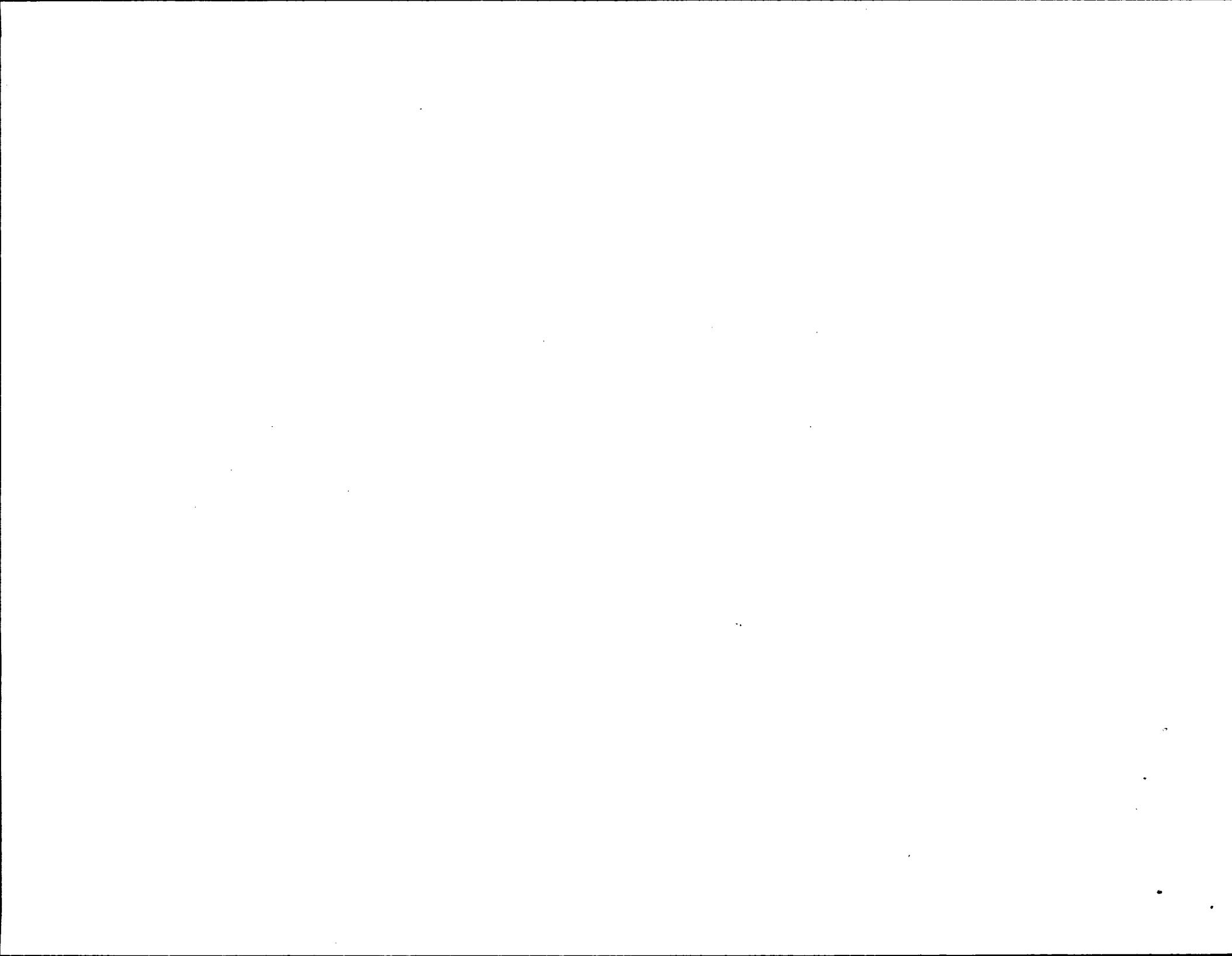
LATEST ISSUE OF AMS 5731L, AMS 5732J, 5734K AND 5737P
 ARCELORMITTAL SNA CERTIFIES THAT THIS MATERIAL HAS BEEN MELTED
 PRODUCED IN FRANCE, QUALIFYING COUNTRY, AS REQUIRED BY
 DFARS 252.225-7014

MATERIAL IS FREE FROM MERCURY, RADIUM, OR ALPHA SOURCE
 CONTAMINATION

THE WILLFUL RECORDING OF FALSE OR FRAUDULENT STATEMENTS ON
 THIS DOCUMENT MAY RESULT IN PUNISHMENT AS A FELONY UNDER
 FEDERAL STATUTES

MAR 19 2014





UMPCO, INC.

MANUFACTURE OF CLAMPS, CLIPS & BRACKETS
 7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531
 WWW.UMPCO.COM

Customer NO.

EAS002

Sales Order NO.

421172

*** THIS IS A BACKORDER ***

SHIPPING DEST CODE

SOLD TO EAST COAST AVIATION
 ECAS LLC
 399 EAST DRIVE
 MELBOURNE, FL 32904

SHIP TO EAST COAST AVIATION
 ECAS LLC
 399 EAST DRIVE
 MELBOURNE, FL 32904

CLAIMS FOR ERRORS AND ALL DEDUCTIONS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF INVOICE 1 1/2% SVC. PER MO. CHARGED ON ALL PAST DUE AMOUNTS

ORDER DATE	SHIP VIA	F.O.B.	TERMS	SHIPPING DATE		
03/01/16	FEDX FREIGHT	COLLECT	1/2 % 10 NET 30			
PURCHASE ORDER NUMBER	ORDER DATE	CONTACT	SALESPERSON	BILL OF LADING NUMBER		
FL76100	03/01/16		08			
ITEM	ON ORDER	QUAN.SHIPPED	QUAN. BO	DESCRIPTION		
6	5000	5000	MS21919WDG8	04/26/16	Y	1 - 400 5# 2 - 2300 54#
		REV E	Lot#: UMP111637	4Q15 Qty: 4600 IR Numbers: 186740 188217 188252 188088		
			Lot#: UMP111637	4Q15 Qty: 400 IR Numbers: 186740 188217 188252 188088		
7	5000	5000	MS21919WDG9	04/20/16	Y	1 - 1200 19# 2 - 1900 60#
		REV E	Lot#: UMP109874	4Q15 Qty: 3800 IR Numbers: 186832 188094 188106 188011		
			Lot#: UMP109874	4Q15 Qty: 1200 IR Numbers: 186832 188094 188106 188011		
8	5000	5000	MS21919WDG5	04/26/16	Y	1 - 1000 9# 2 - 2000 36#
		REV E	Lot#: UMP110614	3Q15 Qty: 4000 IR Numbers: 186740 187960 187985 187896		
			Lot#: UMP110614	3Q15 Qty: 1000 IR Numbers: 186740 187960 187985 187896		

EL

Page 2

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TOTAL CARTONS 38
 FEDX FREIGHT 415047517

TOTAL WEIGHT 894

1-PLF

PURCHASE ORDER NUMBER



CUSTOMER NO.



SALES ORDER NO.



A WRITTEN RETURN MATERIAL AUTHORIZATION FORM (RMA) MUST BE OBTAINED FROM UMPCO BEFORE RETURNING ANY MATERIALS FOR CREDIT OR REPLACEMENT.
 "WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 6, 7 & 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF."

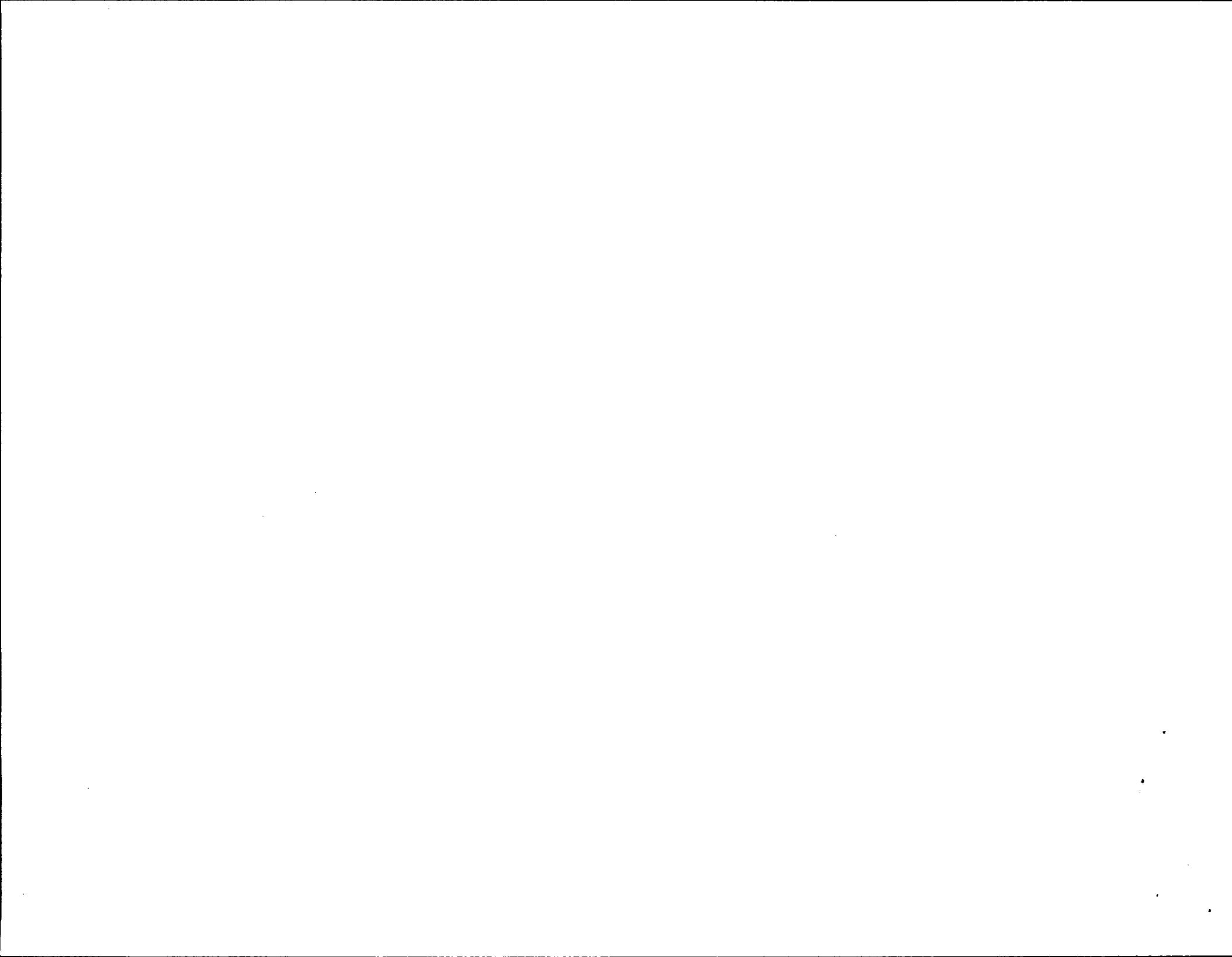
UMPCO certifies that parts shipped on above documents conforms in all respects to applicable specifications and/or standards. Complete physical and chemical test reports as required are on file and available for review. Processing product testing and inspection control of raw material shall be in conformance with all applicable specifications, drawings and/or standards. Products are produced in a mercury free environment. When applicable, materials are compliant to DFARS 252.225-7009."

UMPCO, INC. 7100 Lampson Ave.
 Garden Grove, CA 92841

Customer Packing Slip

Authorized Signature Final Inspector

DELIVERY RECEIPT NO. 421172





UMPCO, INC. *3/14/16
JH*

MANUFACTURE OF CLAMPS, CLIPS & BRACKETS
7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531
WWW.UMPCO.COM

Customer NO.
EAS002
Sales Order NO
421172

SOLD TO EAST COAST AVIATION
ECAS LLC
399 EAST DRIVE
MELBOURNE, FL 32904

SHIPPING DEST CODE

SHIP TO EAST COAST AVIATION
ECAS LLC
399 EAST DRIVE
MELBOURNE, FL 32904

CLAIMS FOR ERRORS AND ALL DEDUCTIONS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF INVOICE 1 1/2% SVC. PER MO. CHARGED ON ALL PAST DUE AMOUNT!

ORDER DATE	SHIP VIA	F.O.B.	TERMS	SHIPPING DATI	
03/01/16	UPS	COLLECT	1/2 % 10 NET 30		
PURCHASE ORDER NUMBER	ORDER DATE	CONTACT	SALESPERSON	BILL OF LADING NUMBER	
FL76100	03/01/16		08		
ITEM ON ORDER	QUAN.SHIPPED	QUAN. BO	DESCRIPTION		
1	5000	0	MS21919WDG17 REV E	04/26/16	Y
2	10000	0	MS21919WDG19 REV E	04/26/16	Y
3	2000	2000	MS21919WDG22 REV E	04/08/16 ACCEPTED	S/C Y
Lot#: UMP109749			2Q15 Qty: 2000	IR Numbers: 186473 187418 187444 187128	
4	500	500	MS21919WDG23 REV E	04/08/16 ACCEPTED	Y 1 - 500 23#
Lot#: UMP109903A			3Q15 Qty: 500	IR Numbers: 186473 188072 188106 187130	
5	20000	0	MS21919WDG6 REV E	04/26/16	S/C Y
6	5000	0	MS21919WDG8 REV E	04/26/16	Y
7	5000	0	MS21919WDG9 REV E	04/26/16	Y

(Continued)

Page 1

Printed: 04/08/16 07:44:06 UPS 3165E0

PURCHASE ORDER NUMBER

CUSTOMER NO.

SALES ORDER NO.



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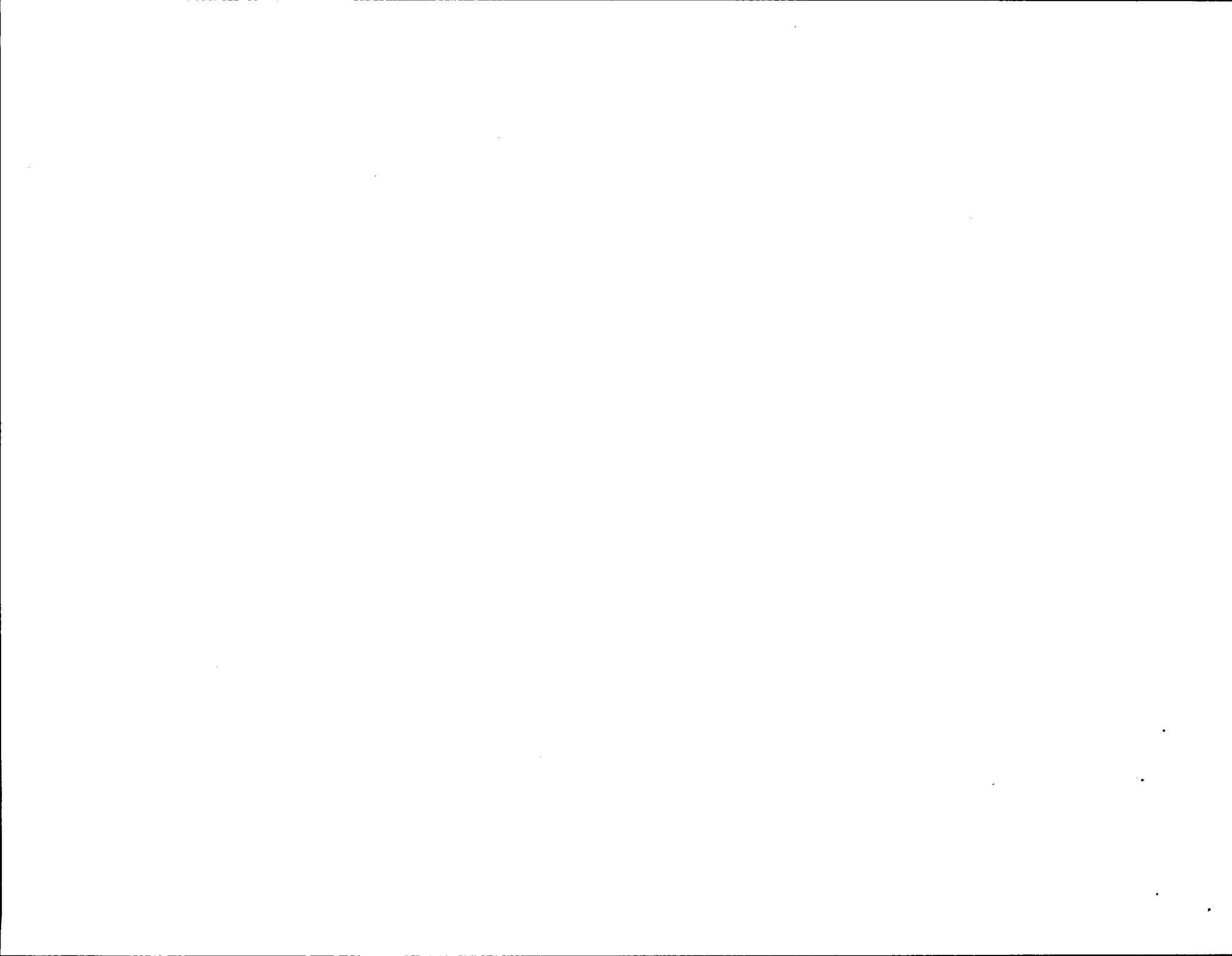
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UMPCO, INC. 7100 Lampson Ave.
Garden Grove, CA 92841

Customer Packing Slip

Authorized Signature Final Inspector

DELIVERY RECEIPT NO. 421172



UMPCO, INC.

5/10/16
11

Customer NO.

EAS002

Sales Order NO.

421172

MANUFACTURE OF CLAMPS, CLIPS & BRACKETS
7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531
WWW.UMPCO.COM

*** THIS IS A BACKORDER ***

SHIPPING DEST CODE

SOLD EAST COAST AVIATION
TO ECAS LLC
399 EAST DRIVE
MELBOURNE, FL 32904

SHIP EAST COAST AVIATION
TO ECAS LLC
399 EAST DRIVE
MELBOURNE, FL 32904

CLAIMS FOR ERRORS AND ALL DEDUCTIONS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF INVOICE 1 1/2% SVC. PER MO. CHARGED ON ALL PAST DUE AMOUNTS

ORDER DATE	SHIP VIA	F.O.B.	TERMS	SHIPPING DATE
03/01/16	FEDX FREIGHT	COLLECT	1/2 % 10 NET 30	04/27/16
PURCHASE ORDER NUMBER	ORDER DATE	CONTACT	SALESPERSON	BILL OF LADING NUMBER
FL76100	03/01/16		08	

ITEM ON ORDER QUAN.SHIPPED QUAN. BO

DESCRIPTION

1	5000	5000	MS21919WDG7	04/20/16	Y	1 - 200 6# 6 - 800 132#
REV E				Lot#: UMP111062 2Q15 Qty: (400) IR Numbers: 186832 188172 188204 187776 ACCEPTED		
				Lot#: UMP109788 2Q15 Qty: (400) IR Numbers: 186832 187926 187944 187404 ACCEPTED		
				Lot#: UMP109788 2Q15 Qty: (200) IR Numbers: 186832 187926 187944 187404 ACCEPTED		
2	10000	10000	MS21919WDG9	04/26/16	Y	1 - 200 8# 14 - 700 378#
REV E				Lot#: UMP109424 3Q15 Qty: (400) IR Numbers: 186473 187831 187848 187518 ACCEPTED		
				Lot#: UMP111938 3Q15 Qty: (6400) IR Numbers: 187630 188181 188244 187519 ACCEPTED		
				Lot#: UMP111938 3Q15 Qty: (200) IR Numbers: 187630 188181 188244 187519 ACCEPTED		
5	20000	20000	MS21919WDG6	04/20/16	Y	1 - 2000 19# 6 - 3000 168#
REV E				Lot#: UMP111054B 4Q15 Qty: (12000) IR Numbers: 186740 187946 187985 187604 ACCEPTED		
				Lot#: UMP111054C 4Q15 Qty: (6000) IR Numbers: 186740 187946 187985 187773 ACCEPTED		
				Lot#: UMP111054C 4Q15 Qty: (2000) IR Numbers: 186740 187946 187985 187773 ACCEPTED		

(Continued)

Page 1

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FEDX FREIGHT 415047517

PURCHASE ORDER NUMBER

CUSTOMER NO.

SALES ORDER NO.

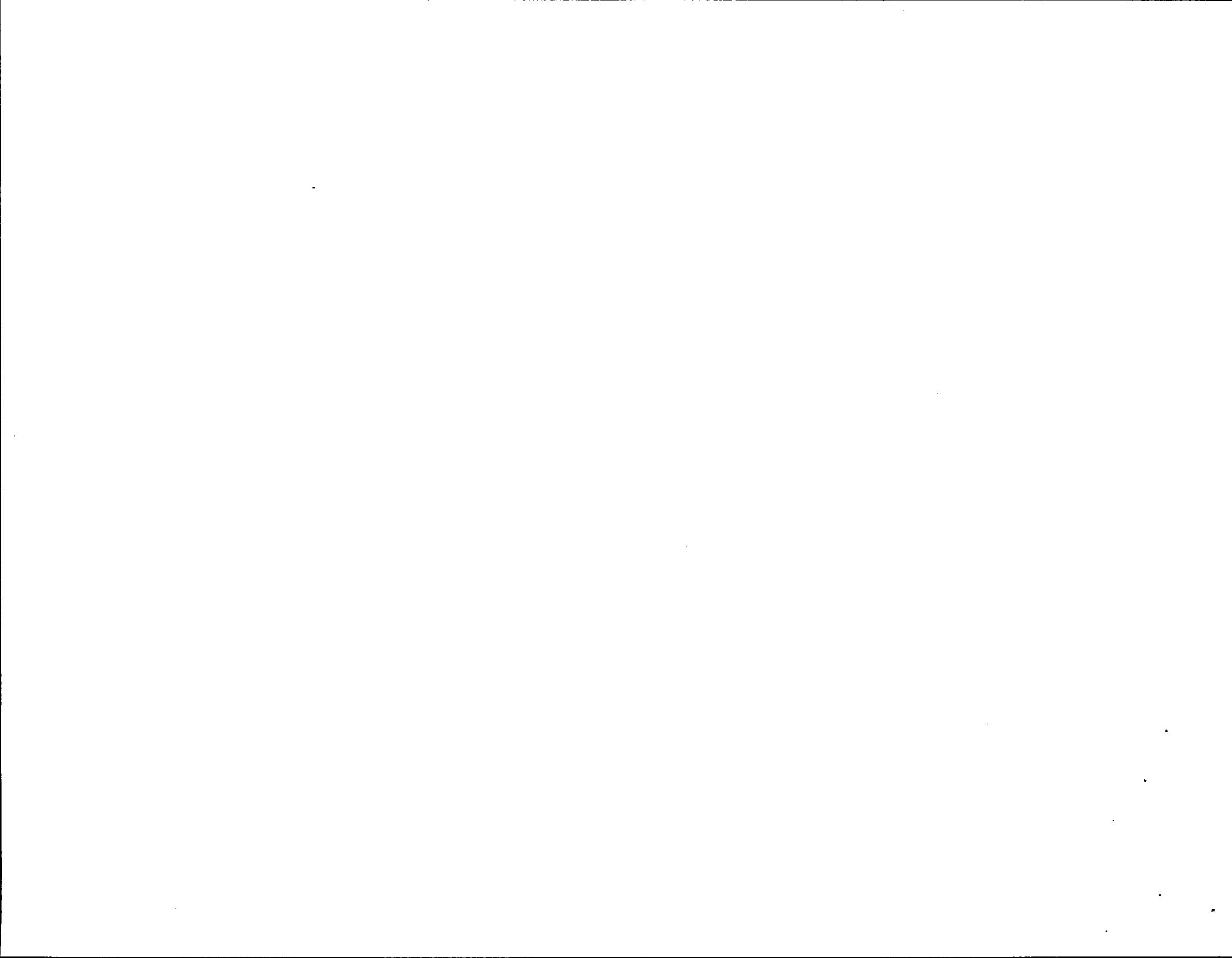
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UMPCO, INC. 7100 Lampson Ave.
Garden Grove, CA 92841

Customer Packing Slip

Authorized Signature Final Inspector

DELIVERY RECEIPT NO. 421172



UMPCO, INC.

MANUFACTURE OF CLAMPS, CLIPS & BRACKETS
 7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531
 WWW.UMPCO.COM

Customer NO.

EAS002

Sales Order NO.

421172

*** THIS IS A BACKORDER ***

SHIPPING DEST CODE

SOLD TO EAST COAST AVIATION
 ECAS LLC
 399 EAST DRIVE
 MELBOURNE, FL 32904

SHIP TO EAST COAST AVIATION
 ECAS LLC
 399 EAST DRIVE
 MELBOURNE, FL 32904

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ORDER DATE	SHIP VIA	F.O.B.	TERMS	SHIPPING DATE
03/01/16	FEDX FREIGHT	COLLECT	1/2 % 10 NET 30	

PURCHASE ORDER NUMBER	ORDER DATE	CONTACT	SALESPERSON	BILL OF LADING NUMBER
FL76100	03/01/16		08	

ITEM ON ORDER	QUAN.	SHIPPED	QUAN.	BO	DESCRIPTION
----------------------	--------------	----------------	--------------	-----------	--------------------

6	5000	5000	MS21919WDG8	04/26/16	Y	1 - 400 5#
			REV E			2 - 2300 54#
Lot#: UMP111637 4Q15			Qty: 4600	IR Numbers: 186740 188217 188252 188088	ACCEPTED	
Lot#: UMP111637 4Q15			Qty: 400	IR Numbers: 186740 188217 188252 188088	ACCEPTED	

7	5000	5000	MS21919WDG9	04/20/16	Y	1 - 1200 19#
			REV E			2 - 1900 60#
Lot#: UMP109874 4Q15			Qty: 3800	IR Numbers: 186832 188094 188106 188011	ACCEPTED	
Lot#: UMP109874 4Q15			Qty: 1200	IR Numbers: 186832 188094 188106 188011	ACCEPTED	

8	5000	5000	MS21919WDG5	04/26/16	Y	1 - 1000 9#
			REV E			2 - 2000 36#
Lot#: UMP110614 3Q15			Qty: 4000	IR Numbers: 186740 187960 187985 187896	ACCEPTED	
Lot#: UMP110614 3Q15			Qty: 1000	IR Numbers: 186740 187960 187985 187896	ACCEPTED	

EL

Page 2

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06:51:16

TOTAL CARTONS 38

FEDX FREIGHT 415047517

TOTAL WEIGHT 894

PURCHASE ORDER NUMBER

CUSTOMER NO.

SALES ORDER NO.

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UMPCO, INC. 7100 Lampson Ave.
 Garden Grove, CA 92841

Customer Booking Clerk

Authorized Signature Fiduciary Inspector

DELIVERY RECEIPT NO. 421172



CERTIFICATE OF COMPLIANCE TEST REPORT

Nº 80838

FORM REV A 11/09

MADE IN THE U.S.A.

CUSTOMER NAME EAST COAST AVIATION SUPPL
PART NO. MS27039-0819* REV 3

PURCHASE ORDER NO. 65200
INTERNAL ROUTING NO. 31531
QUANTITY TWENTY FIVE THOUSAND
MATERIAL/SPECIFICATION .176 A-8740 WIRETECH 10189930
DATE 7/29/2013

PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND
INSPECTED IN ACCORDANCE WITH APPLICABLE DRAWINGS AND
SPECIFICATIONS.

PHYSICAL PROPERTIES

TENSILE STRENGTH	HARDNESS	SCALE
1) 2025.0 LB T	1)	
2) 2000.0 LB T	2)	
3) 1999.0 LB T	3)	
4) 2021.0 LB T	4)	
5) 2028.0 LB T	5)	
6)	6)	
7)	7)	
8)	8)	

CONFORMS TO THE PROCUREMENT SPECIFICATIONS OF:

NASM 7839
DFARS 252.225-7009

OTHER MECHANICAL TEST DATA

MEET MAGNETIC PERMEABILITY REQUIREMENTS OF
FF-S-92B, MIL-I-17214B, AND ASTM A342/A 342M TEST
METHOD 3.

PARTS ARE FREE FROM MERCURY AND ASBESTOS CONTAMINATION.

VISUAL AND DIMENSIONAL INSPECTION SATISFACTORY

FINISH

CAD TYPE 2 CLASS 2 PER AMS QQ-P-416 REV C

INSPECTED TO: ANSI/ASQ Z1.4 LEVEL 2

Signature



TRACEY NIKSA, QC TECH

Cage Code #63020

700 George Washington Turnpike, Burlington, CT 06013, U.S.A.
Telephone: (860) 673-2591 Fax: (860) 673-5973

CRESCENT MANUFACTURING OPERATING, CO.







County Heat Treat



Division of United County Industries Corporation

Website: www.CountyHeatTreat.com

32 Howe Avenue ~ P.O. Box 330 ~ Millbury, MA 01527

Phone: 508-865-5885

Fax: 508-865-4033

CERTIFICATE OF CONFORMANCE

July 23, 2013

CRESCENT MANUFACTURING
700 GEORGE WASHINGTON TNPK
P.O. BOX 1350
BURLINGTON, CT 06013-1350

This is to certify the heat treating results on the material submitted as follows:

Purchase Order No.: 31531

CHT Work Order No.: 417456

Description: 207 LBS P/N: MS27039-0819* *8-32 X 1.219 PH PAN MRK

Material: 8740

Customer Specs: HEAT TREAT PER SPEC AMS2759 REV. D
HARDNESS: RC 26-31 (125-145,000 TENSILE)

Results: HEAT TREATED PER SPEC AMS2759 REV. D
HARDNESS: RC 28-29
TENSILE APPROVED BY CRESCENT

Inspected by:

STEPHEN S. DERY

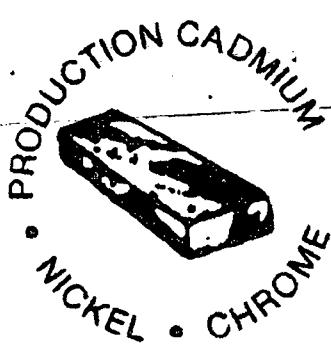
Quality Control

QMF 23

CRESCENT MFG
T.R. NO. 80838

Effective Date: 4/7/11
Issue: 3





New Method Plating Co., Inc.

QUALITY
MANAGEMENT
SYSTEM
ISO 9001:2000
AS9100 REV. B
CERTIFIED

Established 1931

43 Hammond St.
Worcester, MA 01610
Phone 508.754.2671
Fax 508.754.1981
www.newmethodplating.com



CERTIFICATE OF COMPLIANCE

COMPANY CRESCENT MFG. CO.

DATE 7/24/13

PO#	QUANTITY
<u>31531</u>	<u>30,000</u>

JOB # 8-32 x 1.219 PH Pan MS27039-0819

CADMIUM PLATED IN ACCORDANCE WITH AMS QQ-P-416C
Class II Type II (Clear Yellow Black)

Hardness: 26-31 HRC

NO BAKE

Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 8 hours.
 Before plating, bake at 275+/-25F for 5 hours. After plating, bake at 275+/-25F for 23 hours.
 Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 23 hours.

Thickness Test Results

Accept Reject Min.: Spec. .0003 Read .00039 Avg. .00046

Adhesion Test Results

Accept Reject Inspected by:

Certification

This lot has been processed, sampled, tested, and inspected in accordance with the contract and specification requirements listed above, and the plating and conversion coating complies with those contract and specification requirements. Process control data is on file and is available upon request. We certify that these parts have been processed in a mercury free environment.

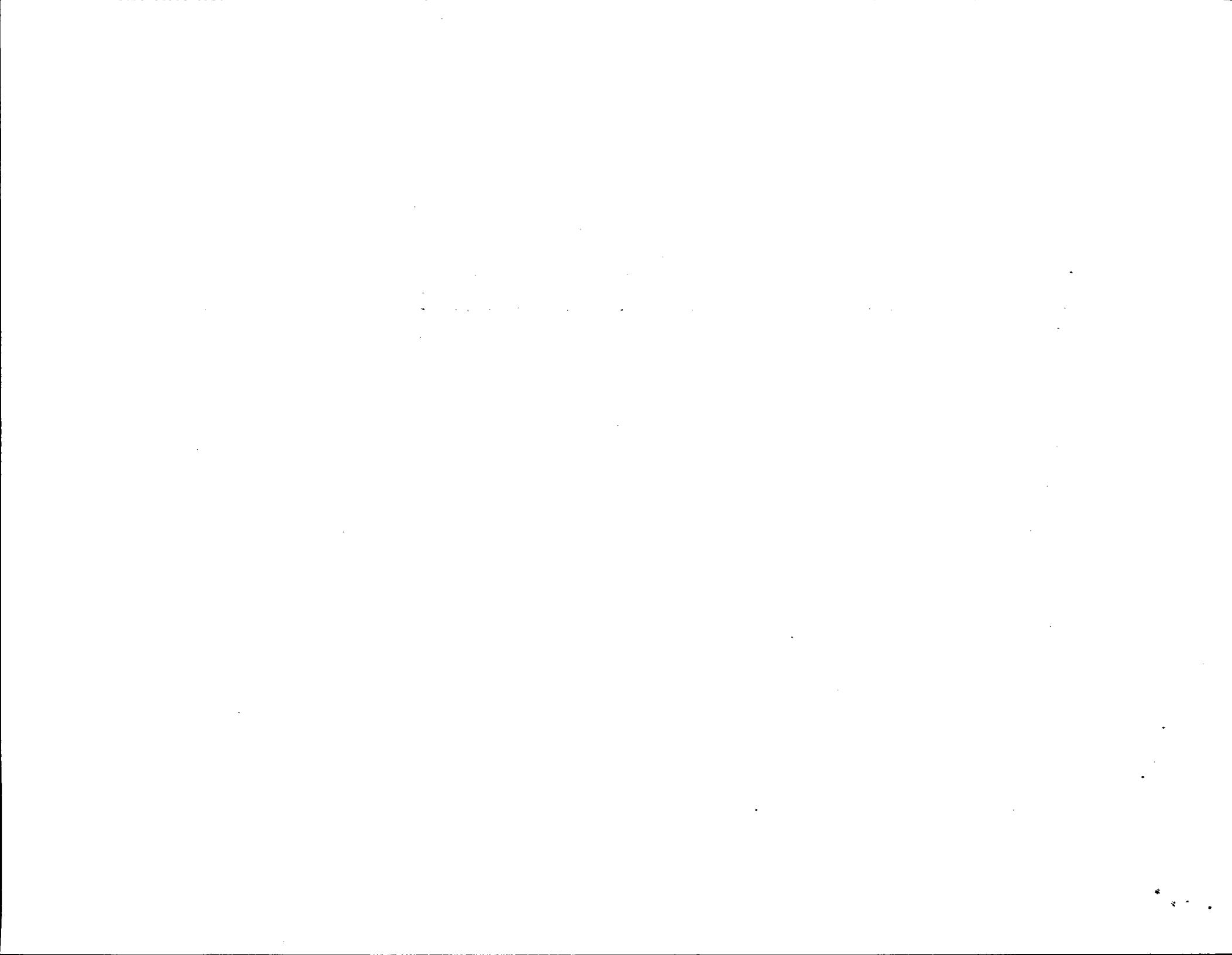
Signed:

Christopher J. Capalbo

Title: Quality Manager Date: JUL 24 2013

CRESCENT MFG
T.R. NO. 80838





**LFC** industriesA Division of RKR Technologies, LTD
manufacturer of precision aerospace fasteners1221 Corporate Dr. W • P. O. Box 5982
Arlington, Texas 76006 (817) 640-1322**SHIPPING
REPORT**

51295B

PARTIAL

COMPLETE PRODUCTION ORDER # *551583*
COUNTRY OF ORIGIN: USAS
H
I
P
PEAST COAST AVIATION
744 PILOT ROAD
LAS VEGAS, NV 89112T
O
:SHIPPING
METHOD*FedEx FRT*

PRE-PAID:

COLLECT

ORDER NO. 60316

PART NO. MS27039-1-16
ITEM # 7

REVISION 3

QTY. DUE 33755

SHIP TOL. +0-5%

DATE DUE 07-23-2012

COMMENTSRETURN OF ANY MERCHANDISE LISTED HEREON WILL NOT
BE ACCEPTED WITHOUT PRIOR AUTHORIZATION**CERTIFICATE OF CONFORMANCE**THE MATERIALS, PROCESSES AND PARTS FUR-
NISHED WERE PRODUCED IN ACCORDANCE WITH
APPLICABLE SPECIFICATION REQUIREMENTS, AND
TEST REPORTS INDICATING CONFORMANCE ARE
ON FILE SUBJECT TO EXAMINATION. OUR Q.C.
INSPECTION SYSTEM CONFORMS TO ISO 9001.*Elaine Gould*

SIGNED

EECN: EAR99 SCHEDULE B # 7318, 15. 2000

QTY
SHIPPED:*33755*QY.
CONTAINERS:*13*

LBS. PER "M":

*10,1423*GROS
WEIGHT:*355.23*PCS. USED TO
ESTABLISH WT.*20*TARE
WEIGHT:*12.23*NET
WEIGHT:*342.40*SHIPPING
CLERK:*DC*

DATE

*7/31/12*CONSIGNEE
SIGNATURE:

DATE

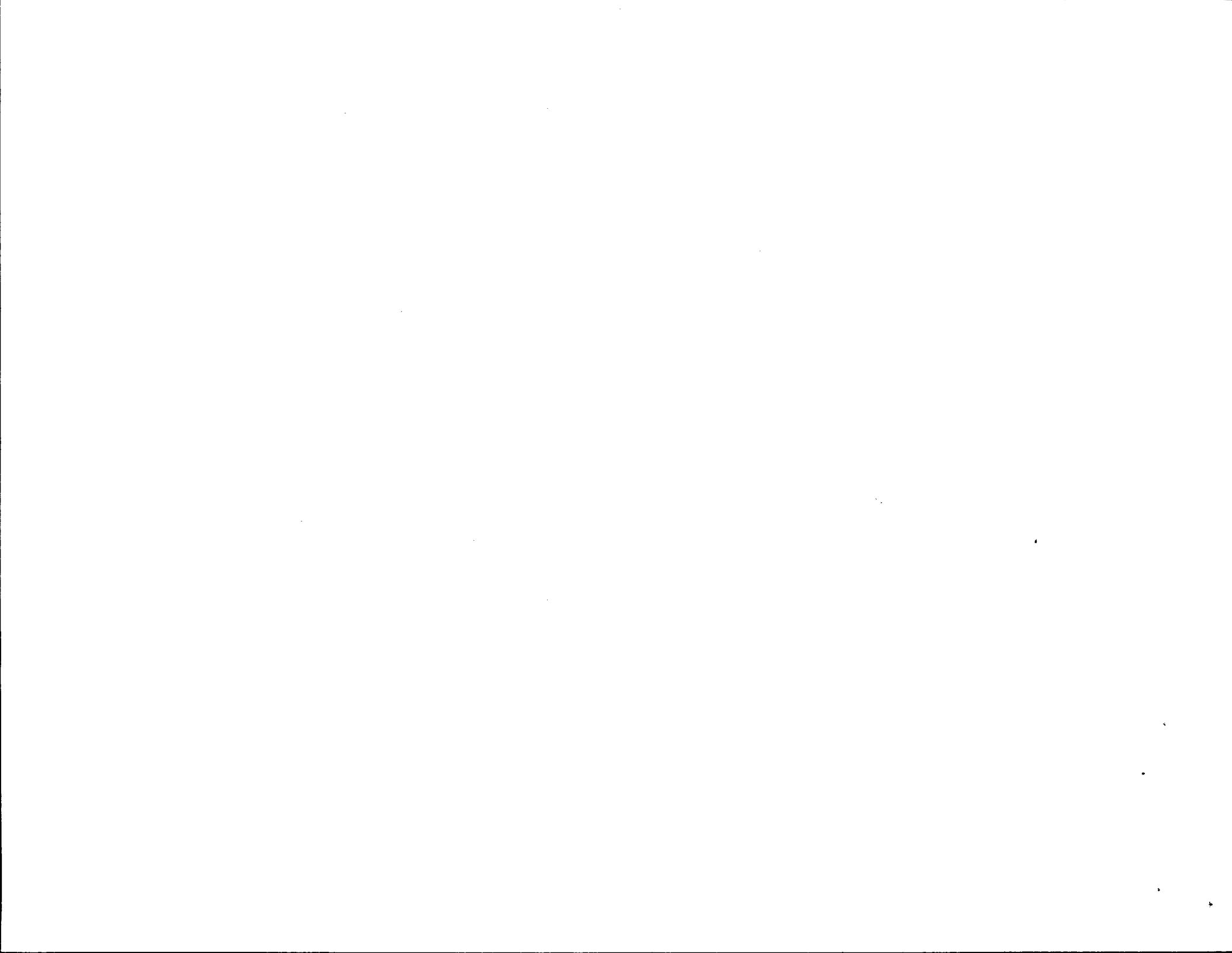


LFC INDUSTRIES, DIV. OF RKR TECHNOLOGIES LTD.
1221 CORPORATE DR. W., ARLINGTON, TX 76006
(817) 640-1322 FAX (817) 652-1566

LFC IND. CAGE CODE # 62384, CERTIFICATION - FASTENERS IN THIS LOT WERE
MANUFACTURED, PROCESSED AND INSPECTED IN ONE RUN PER APPLICABLE
DRAWING, PROCUREMENT SPECIFICATION, ISO9001:2008, AND AS9100B.

PART #	REVISION	LOT #	CUSTOMER	PO #							
MS27039-1-16	3	S51583	EAST COAST	60316							
QUANTITY	PROCUREMENT SPECIFICATION	HEAT TREAT SPECIFICATION	DESCRIPTION								
33755	NASM7839 REV-1	AMS-2759/1	SCREW, PAN HEAD								
FINISH TYPE	FINISH SPECIFICATION	BAKE									
TYII CL2	AMS-QQ-P-416C	N/A	CROSS RECESS								
THREAD SIZE	THREAD SPECIFICATION	HARDNESS REQUIRED		HARDNESS ACTUAL AVERAGE							
10-32 UNF3A	H28/2	RC 26-32		RC 30.5							
NDT SAMPLE SIZE	NDT SPECIFICATION	NDT ACCEPT	NDT REJECT	LOCKING ELEMENT SPECIFICATION							
N/A	N/A	N/A	N/A	N/A							
MAGNETIC PERMEABILITY SAMPLE SIZE	PERMEABILITY ACCEPT	PERMEABILITY REJECT									
N/A	N/A	N/A									
RECESS TORQ SAMPLE SIZE	MINIMUM TORQ REQUIRED	TORQ END LOAD	TORQ ACCEPT	TORQ REJECT							
N/A	N/A	N/A	N/A	N/A							
CHEMICAL COMPOSITION ON CERTIFIED MILL TEST REPORT											
MILL HEAT #	MATERIAL SPECIFICATION	MATERIAL GRADE	SUPPLIER								
10157260	AMS6322N	8740	WIRETECH								
C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V		
.40	.85	.009	.008	.28	.45	.55	.22	.08			
B	Ti	Al	Co	Pb	Fe	Sn	Zn	N	Mg		
TENSILE SAMPLE SIZE		TENSILE STRENGTH REQUIRED			DOUBLE SHEAR SAMPLE SIZE		D. SHEAR STRENGTH REQUIRED				
32		2500#			32		4250#				
T1	3600	T12	3440	T23	3460	S1	5300	S12	5280	S23	5240
T2	3440	T13	3460	T24	3560	S2	5220	S13	5260	S24	5220
T3	3460	T14	3600	T25	3460	S3	5240	S14	5280	S25	5300
T4	3440	T15	3440	T26	3440	S4	5280	S15	5240	S26	5240
T5	3580	T16	3460	T27	3580	S5	5260	S16	5220	S27	5280
T6	3440	T17	3580	T28	3460	S6	5280	S17	5240	S28	5280
T7	3460	T18	3440	T29	3440	S7	5240	S18	5300	S29	5260
T8	3560	T19	3460	T30	3460	S8	5220	S19	5240	S30	5240
T9	3460	T20	3560	T31	3440	S9	5240	S20	5280	S31	5280
T10	3440	T21	3460	T32	3460	S10	5230	S21	5220	S32	5300
T11	3580	T22	3440			S11	5240	S22	5280		
FATIGUE SAMPLE SIZE		FATIGUE MAX LOAD		FATIGUE MIN LOAD		METALLURGICAL SAMPLE SIZE		32			
N/A						MICRO STRUCTURE		ACCEPT			
F1 CYCLES		F1 LOCATION OF FAILURE				MACRO STRUCTURE		ACCEPT			
F2 CYCLES		F2 LOCATION OF FAILURE				DECARBURIZATION		NONE			
F3 CYCLES		F3 LOCATION OF FAILURE				CARBURIZATION		NONE			
F4 CYCLES		F4 LOCATION OF FAILURE				UNTEMPERED MARTENSITE		NONE			
F5 CYCLES		F5 LOCATION OF FAILURE				GRAIN FLOW		ACCEPT			
F6 CYCLES		F6 LOCATION OF FAILURE				DISCONTINUITIES		ACCEPT			
F7 CYCLES		F7 LOCATION OF FAILURE				DEVIATION/WAIVER NOTES					
F8 CYCLES		F8 LOCATION OF FAILURE									
FATIGUE ACCEPT		0		FATIGUE REJECT		CERTIFICATION AMENDMENT NOTES					
DATE		SIGNATURE TITLE		AUTHORIZED SIGNATURE							
7/31/2012		DATA ENTRY SPECIALIST		<i>Ellie Jauer</i>		AMENDMENT DATE					







PAULO
PRODUCTS
COMPANY

HEAT TREATERS
AND FINISHERS
OF METAL

4827 CHELSEA AVENUE
KANSAS CITY, MO 64130
TEL: (816)861-7500
FAX: (816)924-7300

**CERTIFIED
INSPECTION REPORT**

S L F C INDUSTRIES
1221 CORPORATE DRIVE WEST
P O BOX 5982
ARLINGTON, TX 76006-5982

PART DESC: CROSS SECTION .1882 X 1.179L
PART NAME: SCREW PAN HEAD CROSS RECESS
PART #: MS27039-1-16
QUANTITY: 38500 PCS
MATERIAL: 8740

PAULO #: 1083524-06

DATE: 03/09/2012

DATE REC'D: 03/02/2012

SHIP TO CODE:

CUSTOMER PO: S51583

CUSTOMER DRAY:

CUSTOMER JOB:

LOT #:

OTHER #:

Requirements:

Process per SAE spec AMS 2759/1 rev E,
Final core hardness 29-32 HRC

INSPECTION RESULTS:

CORE HARDNESS

Count: 13

Range: 29-31 HRC

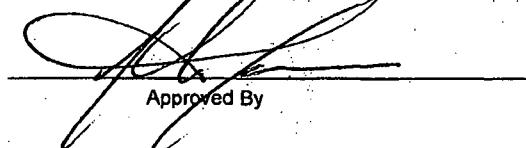
Certified Furnace # 501 Cycle/Load # 50
High heat temp: 1550±25° F Soak time: 60min

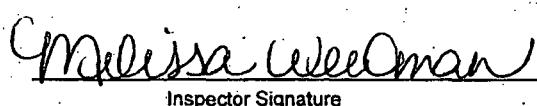
Quench: Oil

Temper furnace: 531 Temper temp/time: 1080±15° F / 2hrs

Paulo is responsible for hardness testing only, customer responsible for all other testing. Paulo is not responsible for tensile testing

I CERTIFY THAT APPLICABLE MATERIAL PROCESSES HAVE BEEN PERFORMED IN ACCORDANCE WITH THE SPECIFICATION SHOWN ABOVE.
I HAVE INSPECTED THE WORK AND THE SAMPLING AND RESULTS ARE AS INDICATED.


Approved By


Inspector Signature

**CERTIFICATION
REVIEWED
ACCEPT
LFC**





WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

LFC Industries
1221 Corporate Drive West
Arlington, TX 76011
USA

CERTIFICATION

WORK ORDER
088596

HEAT NO.
10157260
SALES ORDER / RLS
842876 / 2
ISO 9001-2000 REGISTERED



CERT# 911.01

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	CARRIERS	LADING NO	SHIPMENT DATE
14631		10,739 Lbs	9	00095164	02/09/2012

SPECIFICATION L158740-101875D

A-8740, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating,
Size:0.187/0.188 Specifications: AMS2301H, AMS6322N, MIL-S-6049,AMEND. 1, AMS-S-6049A

CERTIFICATION REQUIREMENTS

Chemical Properties

C	Si	Mn	P	S	Cu	Ni	Cr	Mo
.40	.28	.85	.009	.008	.08	.45	.55	.22

Physical Properties

Grain Size Jominy 1	Jominy 2	Jominy 3	Inclusions	Macro	Cleanliness	Mill Source
6 J5=55	J8=49	J10=46	S2-R1-C2	GOOD	F&S=0	Charter

Country of Origin

USA - DFAR Compliant

Mechanical Properties

TEST	UNITS	Results
Tensile Strength	KSI	85.4
Decarb (Total)	In	0.00
Yield Strength	KSI	72.6
% Elongation	%	27
% Reduction of Area	%	69.9
Rockwell Hardness B Scale	HRB (s)	88

CERTIFICATION
REVIEWED
ACCEPT
LFC
4

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

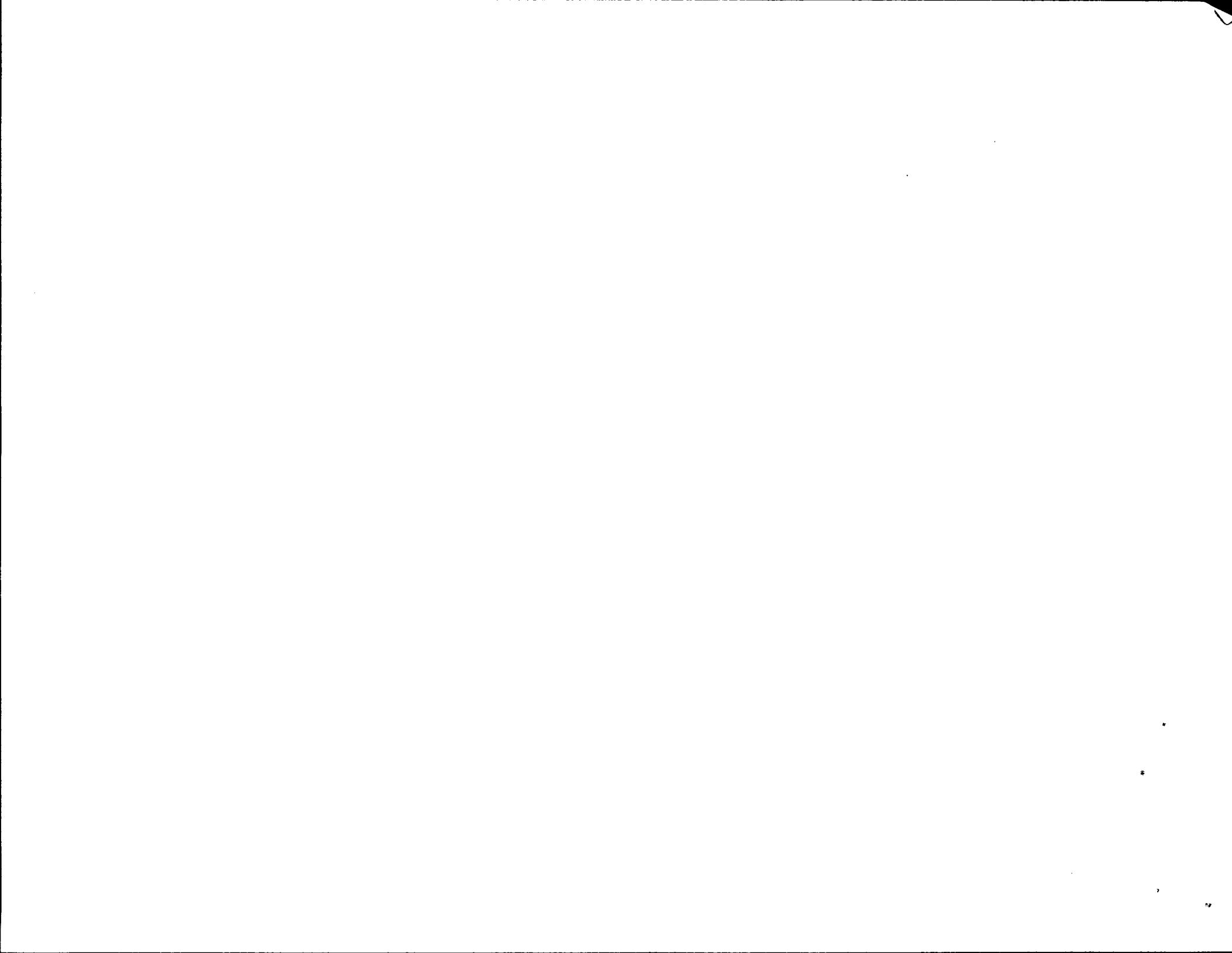
Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

LATEST REVISIONS OF ASTM

DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

Material is free of mercury, radium, or alpha contamination.





CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road.

Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Wiretech Incorporated
6440 East Canning Street
Attn: Andre Stephan
Los Angeles, CA-90040

Cust P.O.	6676-11
Customer Part #	8740E1A070-C-WIRE
Charter Sales Order	70027876
Heat #	10157260
Ship Lot #	4112004
Grade	8740 R SK FG AQ 19/64
Process	DFSTAR
Finish Size	0.2845

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10157260												
Lab Code: 7388	C	MN	P	S	SI	NI	CR	MO	CU	SN	V	
CHEM %Wt	.40	.85	.009	.008	.28	.45	.55	.22	.08	.006	.001	
AL	N	B	TI	NB								
.025	.0060	.0001	.002	.002								
JOMINY(HRC)	JOM01 56	JOM02 56	JOM03 56	JOM04 56	JOM05 55	JOM06 52	JOM07 50	JOM08 49	JOM09 47	JOM10 46	JOM12 43	
	JOM14 41	JOM16 38	JOM18 37	JOM20 36	JOM24 34	JOM28 32	JOM32 31					

JOMINY SAMPLE TYPE ENGLISH = C
MACRO ETCH SURFACE = 1 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1
AMS 2301 FREQUENCY AVERAGE = .04 AMS 2301 FREQUENCY INDIVIDUAL = .07
AMS 2301 SEVERITY AVERAGE = .13 AMS 2301 SEVERITY INDIVIDUAL = .53
CHEM. DEVIATION EXT.-GREEN =

Test Results of Rolling Lot# 1051425												
REDUCTION RATIO = 437:1												

Test Results of Processing Lot# 4109185,4112004				TENSILE LAB = 0358-02		
TENSILE REDUCTION OF AREA	# of Tests	Min Value	Max Value	Mean Value	RA LAB = 0358-02	
	3.0	93.8	95.8	94.8		
	3	67	68	67		

NUM DECARB = 2 FREE FERRITE DECARB = .000 FREE FERR & PARTIAL DECARB = .003
CP SPHERO % LAB = 0358-02 NUM SPHERO = 2 SPHERODIZATION = 82.5

Specifications: Manufactured per Charter Steel Quality Manual Rev 9,08-01-09
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = AMS6322N/AMS2301K/COP3010M/BS2S147:1976 CHEM ONLY Revision = Dated =

Additional Comments:

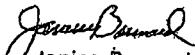
Charter Steel
Saukville, WI, USA



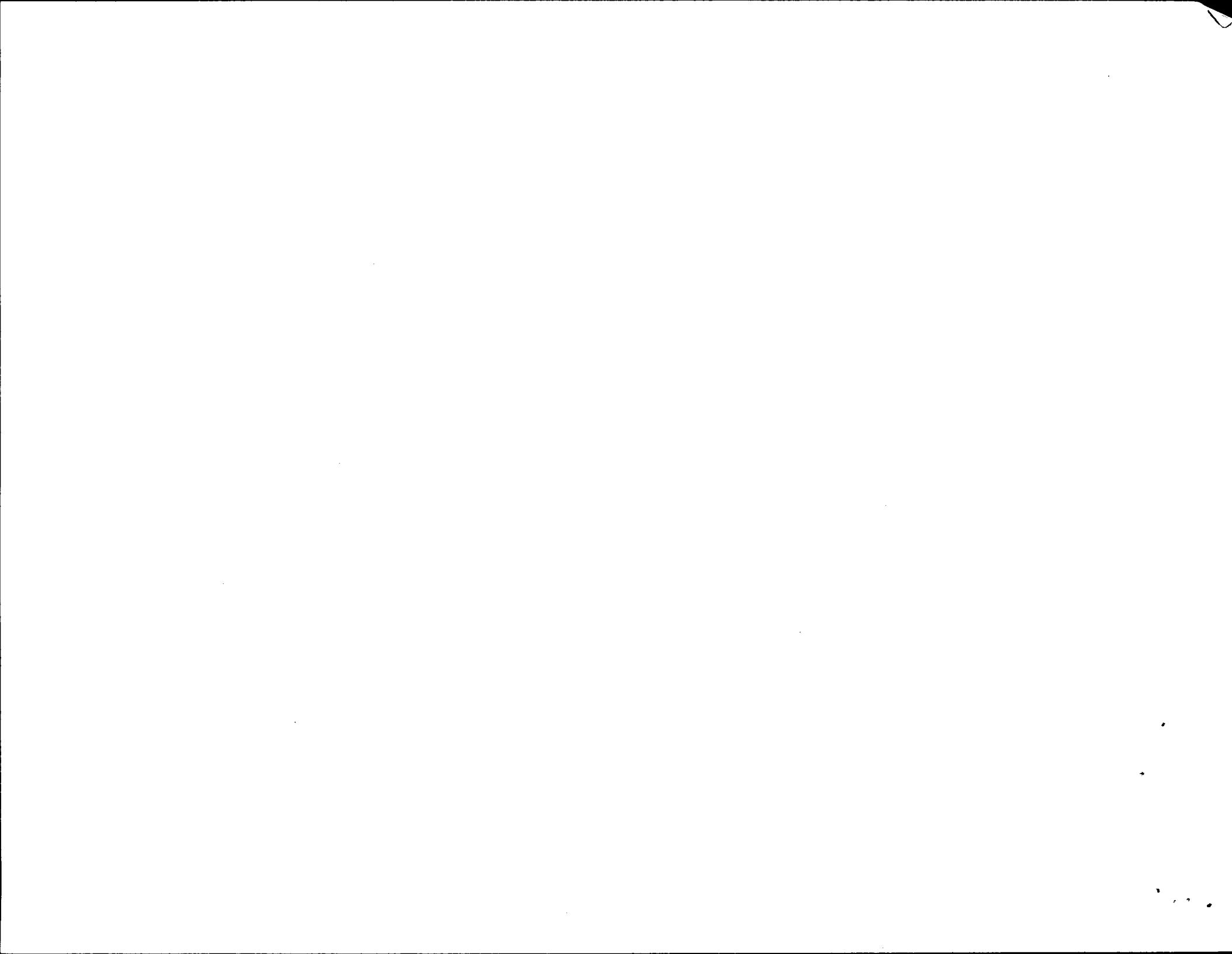
Rem: Load1,Fax0,Mail0

Page 1 of 1

This MTR supersedes all previously dated MTRs for this order


Janice Barnard

Manager of Quality Assurance
01/11/2012



The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States meeting DFAR's compliance.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address	
0358-01	7388	CSSM	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080	
0358-02	8171	CSSR/ CSSP	Charter Steel Rolling/ Processing Division	1658 Cold Springs Road, Saukville, WI 53080	
0358-03	123633	CSFP	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457	
0358-04	125544	CSCM/ CSCR	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004	
*	*	--	Subcontracted test performed by laboratory not in Charter Steel system		

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Specification	CSSM	CSSR/CSSP	CSFP	CSCM/CSCR
Chemistry Analysis	ASTM E415; ASTM E1019	X			X
Macroetch	ASTM E381	X			X
Hardenability (Jominy)	ASTM A255; SAE J406; JIS G0561	X			X
Grain Size	ASTM E112	X	X	X	X
Tensile Test	ASTM E8; ASTM A370		X	X	X
Rockwell Hardness	ASTM E18; ASTM A370	X	X	X	X
Microstructure (spheroidization)	ASTM A892		X	X	
Inclusion Content (Methods A, E)	ASTM E45		X		X
Decarburization	ASTM E1077		X	X	X

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/13.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.





PLATING - PASSIVATION CERTIFICATION REPORT

LOT #
S51583

CUSTOMER
EAST COAST

MILL HEAT #
10157260

PART #
MS27039-1-16

PO #
60316

HARDNESS REQUIRED
RC 26-32

QUANTITY
33755

FINISH TYPE
TYII CL2

FINISH SPECIFICATION
AMS-QQ-P-416C

TIME AND DATE OUT OF PLATE
N/A

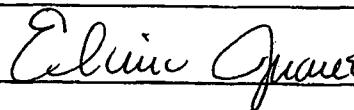
TIME AND DATE IN OVEN
N/A

TIME AND DATE OUT OF OVEN
N/A

THE PARTS REFERENCED ABOVE WERE PROCESSED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE STATED FINISH SPECIFICATION. HYDROGEN EMBRITTLEMENT RELIEF, IF REQUIRED WAS PERFORMED AFTER PLATING AT 375 DEGREES (F), FOR A MINIMUM OF TWENTY THREE HOURS UNLESS OTHERWISE SPECIFIED. ACCEPTANCE TESTS RECORDS ARE ON FILE AT LFC INDUSTRIES AND ARE SUBJECT TO EXAMINATION UPON REQUEST.

CERTIFICATION DATE
7/31/2012

AUTHORIZED SIGNATURE:



SIGNATURE TITLE
DATA ENTRY SPECIALIST

